PHASE 2, CELL 1

MACON COUNTY

MSW LANDFILL

MACON COUNTY, NORTH CAROLINA

PROJECT LOCATION MAP NOT TO SCALE

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 14774 JOEL L. STORROW

8-21-97

MAY, 1997
REVISED: AUGUST, 1997

SCHEDULE OF DRAWINGS

1	COVER SHEET & LOCATION MAP
2	OVERALL SITE PLAN
3	BASE GRADING PLAN
4	CLAY LINER GRADING PLAN
5	DRAINAGE LAYER GRADING PLAN
6	STAKING PLAN
7	EROSION CONTROL PLAN – CONSTRUCTION AND OPERATION
8	SUBCELL 1 FILLING OPERATION
9	SUBCELL 2 FILLING OPERATION
10	SUBCELL 3 FILLING OPERATION
11	SUBCELL 4 FILLING OPERATION
12	FINAL GRADING PLAN
13	PERMANENT EROSION CONTROL PLAN
14	EROSION CONTROL DETAILS
15	EROSION CONTROL DETAILS
16	GAS COLLECTION SYSTEM
17	CROSS SECTIONS
18	CROSS SECTIONS
19	CROSS SECTIONS
20	CROSS SECTIONS
21	MISCELLANEOUS DETAILS
22	MISCELLANEOUS DETAILS
23	MISCELLANEOUS DETAILS

McGill
ASSOCIATES
ENGINEERING • PLANNING • FINANCE

JOB NO.: 96117.01

VICINITY SKETCH (NO SCALE)

Line	Bearing	Distance
L1	S 7° 53' 41" E	113.71'
L2	N 50° 52' 33" E	148.97'
L3	S 18° 52' 27" E	114.11'
L4	S 75° 29' 45" W	41.71'
L5	S 25° 17' 29" E	80.35'
L6	S 45° 35' 22" E	72.54'
L7	S 54° 46' 35" W	152.37'
L8	S 62° 28' 06" W	109.41'
L9	INTENTIONALLY DELETED	
L10	S 50° 07' 11" W	88.14'
L11	S 57° 19' 50" W	22.04'
L12	N 56° 08' 34" W	36.71'
L13	N 55° 52' 02" W	43.85'
L14	N 59° 29' 42" W	53.73'
L15	N 61° 30' 25" W	22.06'
L16	N 64° 55' 43" W	128.85'
L17	N 34° 58' 27" W	49.90'
L18	N 0° 27' 03" E	14.08'
L19	N 9° 34' 47" E	36.05'
L20	N 31° 00' 17" W	23.20'
L21	N 42° 19' 22" W	35.84'
L22	N 63° 30' 55" W	16.02'
L23	N 32° 36' 44" W	20.12'
L24	N 69° 23' 48" W	42.15'
L25	N 6° 43' 23" E	14.91'
L26	N 44° 45' 26" W	39.33'
L27	N 28° 36' 05" W	54.16'
L28	N 50° 18' 45" W	23.29'
L29	N 37° 34' 01" W	44.99'
L30	N 32° 14' 35" W	93.74'
L31	N 23° 53' 44" W	23.75'
L32	N 45° 56' 49" W	23.43'
L33	N 16° 23' 25" W	49.43'
L34	N 79° 12' 33" W	24.05'
L35	N 15° 24' 21" W	4.01'
L36	S 88° 42' 19" W	12.00'
L37	S 87° 00' 33" W	48.49'
L38	N 32° 15' 00" W	40.26'
L39	N 31° 17' 50" W	62.65'
L40	N 26° 49' 05" W	64.00'
L41	N 19° 07' 58" W	59.49'
L42	N 0° 00' 20" E	72.09'
L43	N 24° 18' 54" E	50.99'
L44	N 40° 15' 31" E	44.78'
L45	N 60° 15' 55" E	33.83'
L46	N 7° 24' 19" W	32.43'
L47	N 8° 42' 41" W	46.32'
L48	N 2° 19' 53" W	38.99'
L49	S 35° 11' 27" W	63.11'
L50	S 35° 09' 02" W	104.51'
L51	S 66° 15' 00" W	19.93'
L52	S 60° 02' 32" W	49.82'
L53	S 62° 17' 26" W	53.99'
L54	S 67° 40' 23" W	73.58'
L55	S 70° 27' 27" W	52.81'
L56	S 70° 52' 24" W	75.97'
L57	S 70° 24' 16" W	46.03'
L58	S 35° 02' 24" W	10.70'
L59	S 68° 36' 00" W	86.22'
L60	S 66° 36' 20" W	61.39'
L61	S 65° 18' 25" W	103.23'
L62	S 79° 46' 00" W	30.87'
L63	N 83° 55' 30" W	29.55'
L64	N 71° 45' 55" W	48.13'
L65	N 66° 46' 50" W	45.98'
L66	S 35° 37' 13" W	23.24'
L67	S 35° 37' 13" W	90.01'
L68	N 50° 27' 44" W	146.21'
L69	N 50° 27' 04" W	53.99'
L70	S 79° 42' 46" W	55.69'
L71	N 10° 00' 12" E	107.71'
L72	N 4° 23' 12" E	94.41'
L73	N 4° 15' 37" E	269.72'
L74	S 88° 09' 17" W	16.63'
L75	N 26° 30' 47" E	72.82'
L76	N 11° 13' 42" E	82.89'
L77	N 10° 33' 32" E	144.72'
L78	S 40° 39' 17" W	53.39'
L79	S 11° 12' 07" W	96.21'
L80	S 8° 52' 17" W	97.13'
L81	S 33° 53' 57" W	52.36'
L82	S 19° 26' 17" W	89.54'
L83	N 4° 53' 52" E	164.03'
L84	N 6° 50' 47" E	206.49'
L85	N 14° 23' 52" E	122.44'
L86	S 63° 20' 05" E	315.95'
L87	S 65° 34' 38" E	99.54'
L88	S 66° 17' 45" E	131.10'
L89	N 30° 31' 28" E	21.15'
L90	N 45° 04' 01" W	170.39'
L91	N 52° 23' 42" W	2.21'
L92	N 36° 54' 30" E	39.23'
L93	N 43° 28' 42" E	106.59'
L94	N 35° 49' 53" E	34.38'
L95	N 47° 23' 17" E	50.54'
L96	N 52° 40' 28" E	36.57'
L97	N 48° 17' 48" E	92.89'
L98	N 48° 10' 02" E	44.63'
L99	N 49° 25' 28" E	64.03'
L100	N 41° 46' 17" E	113.28'
L101	N 36° 11' 16" E	80.16'
L102	N 39° 43' 40" E	81.13'
L103	N 37° 55' 53" E	86.71'
L104	N 43° 05' 18" E	80.46'
L105	N 38° 39' 14" E	92.54'
L106	N 38° 32' 27" E	79.58'
L107	N 40° 03' 27" E	96.68'
L108	N 42° 35' 19" E	39.51'
L109	N 83° 43' 25" E	7.44'
L110	S 1° 15' 05" E	7.97'
L111	S 27° 43' 59" W	15.18'
L112	S 23° 40' 51" W	19.30'
L113	S 16° 13' 45" W	21.12'
L114	S 11° 43' 18" W	39.49'
L115	S 6° 28' 46" W	17.23'
L116	S 23° 09' 55" E	14.92'
L117	N 89° 20' 18" E	12.47'
L118	N 80° 03' 25" E	17.59'
L119	N 68° 11' 38" E	11.35'
L120	S 82° 31' 36" E	9.51'
L121	S 18° 36' 54" E	10.57'
L122	S 4° 03' 38" W	26.80'
L123	S 16° 15' 30" W	14.36'
L124	S 6° 37' 51" W	10.24'
L125	S 4° 15' 14" E	43.71'
L126	S 5° 57' 10" E	14.59'
L127	S 24° 17' 27" E	14.55'
L128	S 3° 02' 28" W	19.38'
L129	S 47° 41' 27" E	9.88'
L130	N 34° 45' 54" E	16.74'
L131	N 9° 12' 46" E	25.11'
L132	N 20° 47' 31" E	50.26'
L133	N 13° 22' 54" E	85.99'
L134	N 17° 09' 24" E	37.75'
L135	N 3° 34' 51" E	49.72'
L136	N 11° 20' 23" E	23.45'
L137	N 20° 44' 50" E	48.75'
L138	N 14° 17' 58" E	38.56'
L139	N 1° 21' 15" W	10.07'
L140	N 81° 38' 52" W	7.11'
L141	S 56° 16' 10" W	10.61'
L142	S 43° 12' 20" W	12.28'
L143	S 53° 31' 18" W	26.80'
L144	S 59° 21' 53" W	14.48'
L145	S 46° 43' 49" W	25.03'
L146	S 42° 10' 36" W	23.94'
L147	S 60° 37' 58" W	17.07'
L148	N 76° 13' 29" W	9.00'
L149	N 4° 40' 24" E	7.59'
L150	N 51° 21' 33" E	38.73'
L151	N 45° 36' 32" E	37.60'
L152	N 44° 38' 15" E	55.54'
L153	N 40° 49' 43" E	26.71'
L154	N 34° 57' 56" E	46.82'
L155	N 17° 50' 19" E	48.64'
L156	N 18° 41' 02" E	62.03'
L157	N 36° 09' 46" E	27.91'
L158	N 42° 40' 43" E	65.36'
L159	N 49° 41' 29" E	37.33'
L160	N 40° 25' 44" E	46.29'
L161	N 49° 57' 39" E	70.91'
L162	N 50° 32' 42" E	92.32'
L163	N 59° 38' 19" E	47.82'
L164	N 65° 06' 34" E	56.86'
L165	N 72° 53' 36" E	87.62'
L166	N 83° 20' 40" E	20.75'
L167	N 61° 59' 05" E	22.55'
L168	N 70° 33' 35" E	25.00'
L169	N 80° 34' 43" E	43.62'
L170	N 85° 01' 14" E	24.64'
L171	S 89° 59' 52" E	26.23'
L172	N 86° 04' 10" E	18.25'
L173	N 80° 47' 25" E	17.30'
L174	N 69° 13' 55" E	17.45'
L175	S 84° 16' 51" E	25.33'
L176	S 84° 36' 02" E	75.15'
L177	S 80° 13' 06" E	26.71'
L178	S 77° 01' 20" E	19.47'
L179	S 73° 52' 18" E	24.65'
L180	S 61° 45' 35" E	41.67'
L181	S 53° 55' 17" E	33.48'
L182	S 50° 59' 47" E	27.92'
L183	S 47° 11' 36" E	27.44'
L184	S 42° 57' 34" E	40.73'
L185	S 45° 18' 37" E	30.82'
L186	S 43° 38' 42" E	46.86'
L187	S 42° 06' 01" E	49.59'
L188	S 48° 49' 41" E	31.46'
L189	S 46° 59' 26" E	45.35'
L190	S 53° 02' 06" E	50.08'
L191	S 45° 50' 28" E	19.90'
L192	S 63° 42' 31" E	15.93'
L193	S 48° 23' 17" E	26.02'
L194	S 45° 50' 32" E	12.03'
L195	S 35° 02' 04" E	6.87'
L196	S 22° 19' 18" E	24.32'
L197	S 16° 08' 36" E	29.44'
L198	S 17° 20' 15" E	19.10'
L199	S 19° 39' 38" E	13.60'
L200	S 34° 55' 24" W	3.49'
L201	S 61° 14' 57" W	19.25'
L202	S 36° 24' 07" W	13.00'
L203	S 73° 27' 27" W	3.53'
L204	N 86° 36' 10" W	11.69'
L205	N 72° 10' 05" W	4.78'
L206	N 56° 05' 36" W	6.82'
L207	N 47° 23' 25" W	7.56'
L208	N 27° 55' 32" W	3.58'
L209	N 2° 22' 25" W	4.30'
L210	N 26° 49' 12" E	3.22'
L211	N 52° 05' 15" E	6.14'
L212	N 37° 58' 04" E	2.28'
L213	N 30° 07' 21" W	17.65'
L214	N 37° 54' 31" W	6.25'
L215	N 54° 20' 25" W	6.12'
L216	N 73° 39' 07" W	3.91'
L217	N 85° 27' 58" W	12.38'
L218	N 83° 53' 59" W	5.65'
L219	N 66° 38' 55" W	4.63'
L220	N 52° 47' 48" W	5.02'
L221	N 41° 51' 37" W	31.37'
L222	N 53° 38' 08" W	18.50'
L223	N 40° 23' 41" W	3.91'
L224	N 8° 39' 48" W	4.00'
L225	N 15° 02' 15" E	4.55'
L226	N 37° 38' 36" E	4.25'
L227	N 31° 02' 50" E	3.88'
L228	N 7° 57' 29" E	3.16'
L229	N 51° 24' 56" W	9.49'
L230	S 85° 54' 56" W	11.27'
L231	N 84° 20' 40" W	4.46'
L232	N 48° 54' 09" W	3.72'
L233	N 16° 35' 52" W	3.73'
L234	N 3° 20' 53" E	5.31'
L235	N 3° 59' 19" W	4.54'
L236	N 29° 04' 21" W	13.29'
L237	N 71° 45' 25" W	7.64'
L238	N 79° 11' 26" W	7.48'
L239	N 89° 24' 43" W	8.09'
L240	N 72° 23' 32" W	6.68'
L241	N 37° 17' 31" W	6.44'
L242	N 10° 05' 28" W	5.90'
L243	N 17° 19' 17" W	8.04'
L244	N 61° 57' 23" W	10.00'
L245	N 20° 18' 01" W	6.42'
L246	N 8° 21' 08" W	11.92'
L247	N 4° 05' 45" W	27.72'
L248	N 19° 42' 04" W	7.10'
L249	N 0° 49' 31" W	5.69'
L250	N 36° 52' 12" E	11.55'
L251	N 20° 38' 43" E	6.08'
L252	N 32° 52' 16" W	6.38'
L253	N 62° 15' 52" W	9.04'
L254	N 51° 59' 10" W	44.61'
L255	N 51° 13' 15" W	24.76'
L256	N 68° 09' 23" W	24.22'
L257	N 29° 28' 59" W	7.47'
L258	N 46° 57' 09" W	10.27'
L259	N 64° 28' 13" W	12.25'
L260	N 51° 33' 10" W	17.38'
L261	N 44° 00' 13" W	13.42'
L262	N 53° 49' 23" W	30.05'
L263	N 67° 22' 39" W	9.65'
L264	S 73° 54' 56" W	23.53'
L265	S 69° 57' 54" W	7.46'
L266	S 87° 38' 48" W	12.06'
L267	S 49° 05' 06" W	4.91'
L268	S 9° 52' 00" W	5.78'
L269	S 13° 13' 56" W	5.06'
L270	S 59° 11' 24" W	3.77'
L271	N 89° 37' 32" W	4.44'
L272	N 66° 14' 18" W	24.73'
L273	N 64° 03' 51" W	11.89'
L274	S 87° 33' 07" W	15.80'
L275	N 54° 10' 34" W	11.87'
L276	N 83° 58' 19" W	5.66'
L277	S 73° 08' 14" W	6.88'
L278	S 6° 58' 49" W	4.07'
L279	S 15° 50' 06" E	6.27'
L280	S 22° 14' 56" W	2.19'
L281	S 52° 57' 54" W	2.08'
L282	S 81° 47' 04" W	2.56'
L283	N 75° 41' 43" W	14.59'
L284	N 79° 39' 21" W	10.85'
L285	N 89° 24' 07" W	9.10'
L286	N 74° 46' 58" W	4.90'
L287	S 18° 49' 23" E	7.00'
L288	S 1° 46' 14" E	3.24'
L289	S 7° 31' 20" W	7.59'
L290	S 5° 31' 27" E	7.71'
L291	S 13° 02' 36" E	14.99'
L292	S 26° 55' 27" W	11.84'
L293	S 21° 59' 01" W	9.70'
L294	S 36° 14' 55" W	7.67'
L295	S 22° 23' 20" W	5.32'
L296	S 2° 09' 15" E	5.00'
L297	S 37° 05' 43" E	10.38'
L298	S 18° 04' 55" E	13.14'
L299	S 43° 00' 20" E	23.47'
L300	S 36° 59' 04" E	25.10'
L301	S 60° 30' 02" E	33.98'
L302	S 52° 29' 40" E	23.74'
L303	S 53° 49' 34" E	30.62'
L304	S 59° 28' 53" E	32.08'
L305	S 56° 40' 17" E	31.84'
L306	S 56° 29' 22" E	21.51'
L307	S 50° 41' 11" E	11.62'
L308	S 43° 19' 57" E	14.48'
L309	S 39° 44' 10" E	33.96'
L310	S 38° 53' 17" E	24.77'
L311	S 43° 21' 19" E	31.21'
L312	S 40° 21' 50" E	8.45'
L313	S 8° 05' 37" E	24.13'
L314	S 0° 23' 42" W	10.30'
L315	S 14° 58' 17" W	6.91'
L316	S 40° 10' 39" W	5.15'
L317	S 63° 43' 26" W	6.21'
L318	S 38° 06' 20" W	2.49'
L319	S 16° 54' 09" E	5.70'
L320	S 27° 18' 44" E	11.97'
L321	S 39° 31' 31" E	4.68'
L322	S 60° 54' 01" E	3.33'
L323	S 73° 52' 18" E	7.79'
L324	N 67° 43' 27" E	17.32'
L325	N 75° 42' 21" E	14.76'
L326	S 81° 07' 30" E	8.59'
L327	S 71° 38' 14" E	11.78'
L328	S 62° 22' 58" E	6.23'
L329	S 82° 57' 13" E	2.80'
L330	N 49° 12' 13" E	7.90'
L331	N 67° 18' 23" E	3.65'
L332	S 78° 25' 42" E	4.08'
L333	S 65° 00' 15" E	7.41'
L334	S 43° 04' 55" E	13.82'
L335	S 33° 18' 38" E	7.83'
L336	S 19° 42' 13" E	4.56'
L337	S 0° 38' 34" E	5.26'
L338	S 24° 49' 51" E	31.21'
L339	S 18° 01' 11" E	5.24'
L340	S 2° 42' 20" W	6.08'
L341	S 10° 33' 33" W	13.95'
L342	S 44° 13' 01" E	4.76'
L343	S 24° 04' 50" E	1.72'
L344	S 19° 35' 46" W	9.30'
L345	N 1° 00' 06" W	4.40'
L346	N 33° 22' 59" W	4.35'
L347	N 53° 15' 17" W	7.72'
L348	S 85° 11' 47" W	9.85'
L349	S 64° 07' 18" W	10.78'
L350	S 23° 34' 00" E	6.76'
L351	N 70° 06' 57" E	3.51'
L352	S 86° 19' 21" E	7.25'
L353	S 66° 57' 54" E	3.08'
L354	S 18° 57' 05" E	9.37'
L355	S 27° 17' 15" E	16.60'
L356	S 7° 53' 42" E	13.45'
L357	S 75° 12' 29" E	7.76'
L358	N 77° 36' 00" E	5.26'
L359	N 73° 03' 01" E	7.52'
L360	S 85° 18' 07" E	7.41'
L361	S 68° 07' 15" E	4.52'
L362	S 49° 22' 33" E	4.63'
L363	S 26° 48' 06" E	4.98'
L364	S 11° 26' 12" E	16.66'
L365	S 11° 58' 35" E	31.53'
L366	S 1° 40' 26" E	13.97'
L367	S 13° 27' 12" E	6.15'
L368	S 27° 46' 07" E	6.02'
L369	S 33° 27' 46" E	11.88'
L370	S 47° 45' 23" E	33.98'
L371	S 45° 27' 06" E	14.71'
L372	S 66° 15' 10" E	6.76'
L373	N 73° 41' 18" E	3.52'
L374	N 46° 49' 53" E	6.81'
L375	N 72° 19' 06" E	8.78'
L376	S 86° 30' 33" E	13.34'
L377	N 70° 56' 59" E	7.33'
L378	N 47° 39' 23" E	8.82'
L379	N 22° 45' 25" E	14.65'
L380	N 33° 45' 49" E	10.37'
L381	N 49° 16' 32" E	3.59'
L382	N 68° 00' 08" E	12.41'
L383	N 38° 30' 27" E	9.81'
L384	N 31° 55' 41" E	12.64'
L385	N 38° 34' 59" E	9.92'
L386	N 63° 26' 11" E	16.42'
L387	N 16° 32' 39" E	13.30'
L388	N 34° 18' 56" E	4.07'
L389	N 52° 55' 57" E	4.87'
L390	N 69° 17' 03" E	5.59'
L391	N 82° 18' 53" E	5.17'
L392	S 80° 57' 36" E	4.37'
L393	S 72° 36' 18" E	6.99'
L394	N 86° 10' 41" E	6.29'
L395	N 75° 52' 15" E	4.49'
L396	N 16° 38' 44" E	6.74'
L397	N 23° 36' 44" E	13.26'
L398	N 31° 56' 57" E	17.09'
L399	N 44° 56' 54" E	5.50'
L400	N 63° 16' 25" E	3.65'
L401	N 88° 41' 40" E	8.16'
L402	N 81° 21' 27" E	4.71'
L403	N 57° 00' 24" E	4.79'
L404	N 38° 27' 31" E	6.94'
L405	N 50° 53' 23" E	0.34'
L406	N 73° 31' 14" E	5.96'
L407	S 82° 52' 45" E	12.26'
L408	S 65° 24' 48" E	9.26'
L409	S 56° 30' 18" E	9.00'
L410	S 62° 55' 07" E	9.79'
L411	S 73° 00' 09" E	5.67'
L412	S 7° 53' 41" E	18.00'
L413	S 35° 02' 24" W	19.79'
CEMETERY BOUNDARY		
L414	N 84° 27' 55" E	28.71'
L415	S 7° 08' 21" E	70.65'
L416	N 77° 51' 24" W	36.36'
L417	N 1° 44' 24" W	59.71'
POSSIBLE DEED OVERLAP BEARINGS		
L418	N 80° 04' 02" E	68.78'
L419	S 9° 55' 58" E	43.92'
L420	S 88° 42' 19" W	5.42'

NOTE:

LINES "A" THROUGH "B" AND LINES "C" THROUGH "D" ARE PROJECT BOUNDARY CONTOUR LINE 2000.22' OF THE NANTAHALA POWER & LIGHT COMPANY.

Except as specifically stated or shown on this plat, this survey does not purport to reflect any of the following which may be applicable to the subject real estate: easements, other than possible easements that were visible at the time of making of this survey; zoning or other land use regulations, and any other facts that an accurate and current title search may disclose.

No attempt has been made as a part of this boundary survey to obtain or show data concerning existence, size, depth, condition, capacity, or location of any utility or municipal/public service facility. For information regarding these utilities or facilities, please contact the appropriate agencies.

The locations of underground utilities as shown hereon are based on above-ground structures and record drawings provided the surveyor. Locations of underground utilities and structures may vary from locations shown hereon. Additional buried utilities/structures may be encountered. No excavations were made during the progress of this survey to locate buried utilities/structures. Before excavations are begun, the appropriate agencies should be contacted for verification of utility type and for field conditions.

NOTES:

BOUNDARY SURVEY BY WEBB MORGAN & ASSOCIATES, P.A.

COORDINATES SHOWN ON THIS MAP ARE RELATIVE TO NCGS STATIONS "CARPENTER" & "CARPENTER AZ".

ALL ELEVATION ARE NGVD 1929 AND ARE RELATIVE TO NCGS STATION "CARPENTER"

DISTANCES SHOWN ON THIS PLAT ARE GRID LENGTHS. TO OBTAIN HORIZONTAL GROUND DISTANCES THEY MUST BE DIVIDED BY A COMBINED SCALE AND SEA LEVEL FACTOR OF 0.999778100.

PROPERTY IS SUBJECT TO RIGHTS-OF-WAY & EASEMENTS OF RECORD

REFERENCES:

SUBJECT PARCEL ID#6595.10-36-7772
D.B.I-18 P.G.578

A SURVEY BY G.L. SPRINKLE R.L.S. L-1454
DATED SEPTEMBER 20, 1991 DWG. NO.1162-LF

A SURVEY BY G.L. SPRINKLE R.L.S. L-1454
DATED APRIL 16, 1993 DWG. NO.437

A SURVEY BY G.L. SPRINKLE R.L.S. L-1454
DATED JULY 23, 1996 DWG. NO.1162J

ADDITIONAL REFERENCES AS SHOWN ON PLAT

FEATURES LEGEND:

- ....POINT NOT SET
- ....IRON PIPE OR PIN SET
- ....SPIKE OR NAIL SET
- E.I.P. = EXISTING IRON PIPE OR PIN
- —x—x— FENCE LINE
- L= LINE (SEE LINE TABLE)
- ....CONCRETE MONUMENT
- M.H.= MANHOLE
- U.P.= UTILITY POLE
- U.P.L.= UTILITY POLE (LIGHT)
- U.P.ELEC.= UTILITY POLE (ELECTRIC)
- U.P.TEL.= UTILITY POLE (TELEPHONE)
- U.P.E&T.= UTILITY POLE (ELECTRIC & TELEPHONE)
- TEL. PED.= TELEPHONE PEDESTAL
- E/T= ELECTRIC & TELEPHONE
- O/H= OVERHEAD
- U/G= UNDERGROUND
- F/H= FIRE HYDRANT
- W/M= WATER METER
- W/V= WATER VALVE
- RCP.= REINFORCED CONCRETE PIPE
- CMP.= CORRUGATED METAL PIPE
- R/W= RIGHT OF WAY

WEBB A. MORGAN & ASSOCIATES, P.A.
*** REGISTERED LAND SURVEYORS ***
96 CENTRAL AVENUE, ASHEVILLE, NORTH CAROLINA, 28801
PHONE:(704)252-1530
DRAWING FILE 96020B
JOB FILE NO.96020-D607

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3-21-97

PHASE 2, CELL 1

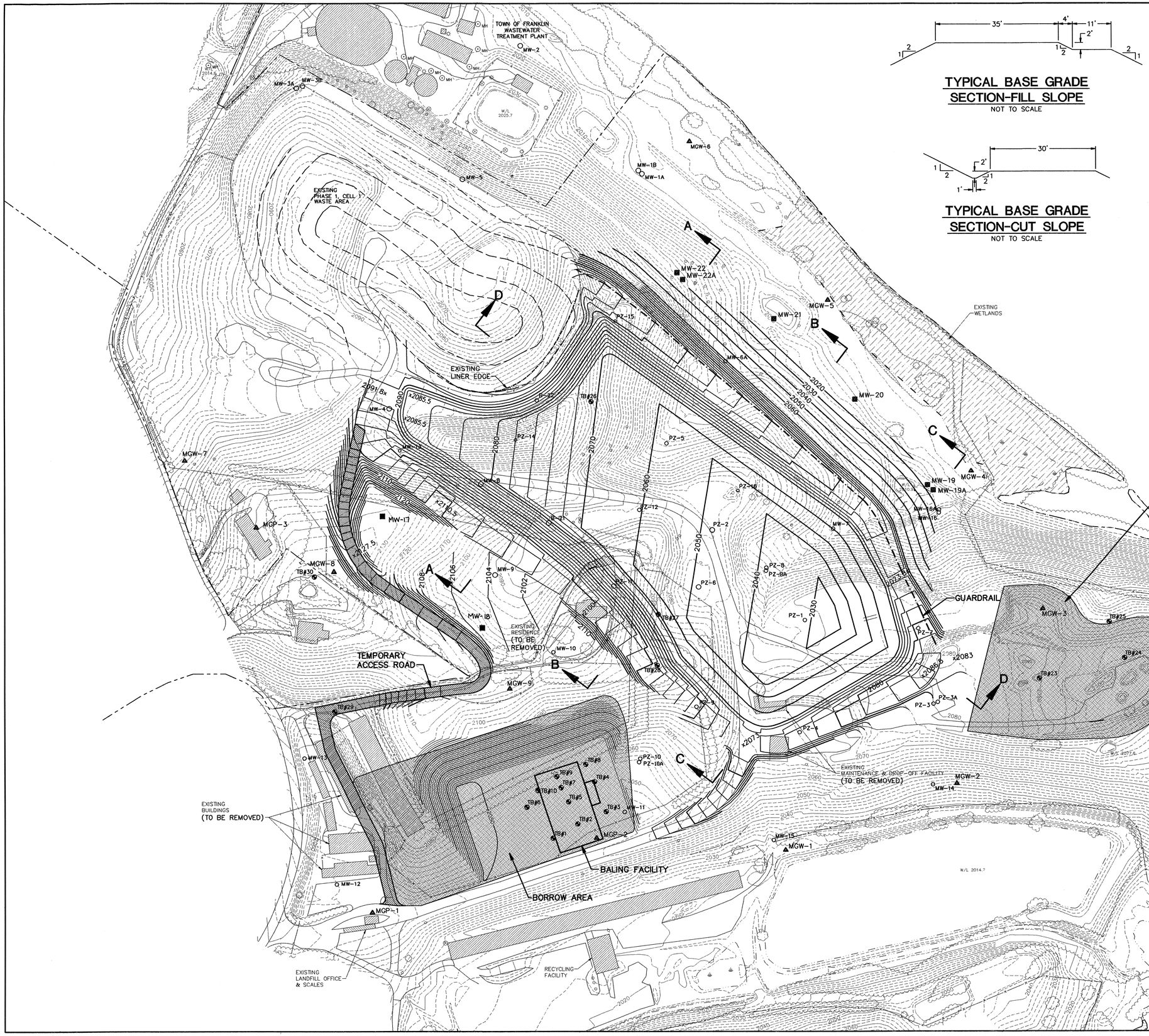
MACON COUNTY MSW LANDFILL

MACON COUNTY, NORTH CAROLINA

JOB NO.: 96117.01
DATE: AUG., 1997
SCALE: 1" = 200'
REVISION: 8/13/97

96117-S1

SITE PLAN



TYPICAL BASE GRADE SECTION-FILL SLOPE

NOT TO SCALE

TYPICAL BASE GRADE SECTION-CUT SLOPE

NOT TO SCALE

LEGEND–EXISTING CONDITIONS

- UTILITY POLE
- GUY WIRE ANCHOR
- MANHOLE
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- CATCH BASIN
- CULVERT
- SIGN
- MAILBOX OR PAPER BOX
- POSTAL DROP BOX
- TELEPHONE PEDESTAL
- FENCE
- TREES/SHRUBS
- TREELINE
- WETLANDS
- MW-1 GROUNDWATER MONITORING WELL
- TB#2 TEST BORE
- PZ-3 PIEZOMETER
- EXISTING CONTOUR

LEGEND–PROPOSED CONDITIONS

- MGP-3 METHANE GAS MONITORING POINT
- MGW-3 METHANE GAS MONITORING WELL
- MW-20 GROUNDWATER MONITORING WELL
- 2080 PROPOSED REGRADE CONTOUR

N.C. GRID NORTH N.A.D. 1983

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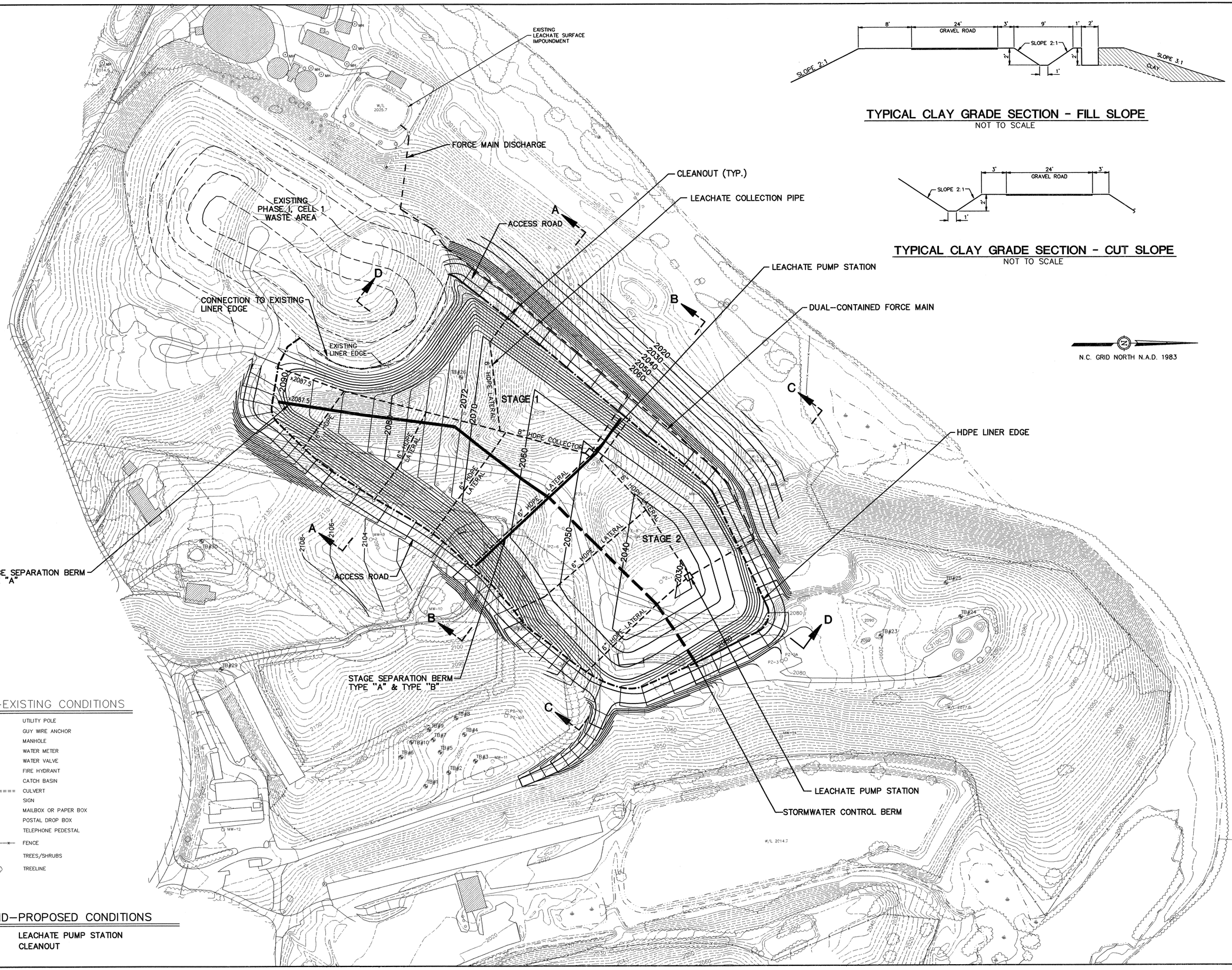
PHASE 2, CELL 1
MACON COUNTY MSW LANDFILL
MACON COUNTY, NORTH CAROLINA

JOB NO.: 96117.01
DATE: MAY 1997
SCALE: 1" = 100'
REVISION: 8/13/97
4/16/98

96117BG

BASE GRADING PLAN

SHEET 3 OF 23



TYPICAL CLAY GRADE SECTION - FILL SLOPE
NOT TO SCALE

TYPICAL CLAY GRADE SECTION - CUT SLOPE
NOT TO SCALE

LEGEND-EXISTING CONDITIONS

UP	UTILITY POLE
	GUY WIRE ANCHOR
MH	MANHOLE
WM	WATER METER
WV	WATER VALVE
FH	FIRE HYDRANT
CB	CATCH BASIN
	CULVERT
SIGN	SIGN
MB	MAILBOX OR PAPER BOX
PB	POSTAL DROP BOX
TEL. PED.	TELEPHONE PEDESTAL
	FENCE
	TREES/SHRUBS
	TREELINE

LEGEND-PROPOSED CONDITIONS

□	LEACHATE PUMP STATION
○	CLEANOUT

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PHASE 2, CELL 1
MACON COUNTY
MSW LANDFILL
MACON COUNTY, NORTH CAROLINA

JOB NO.: 96117.01
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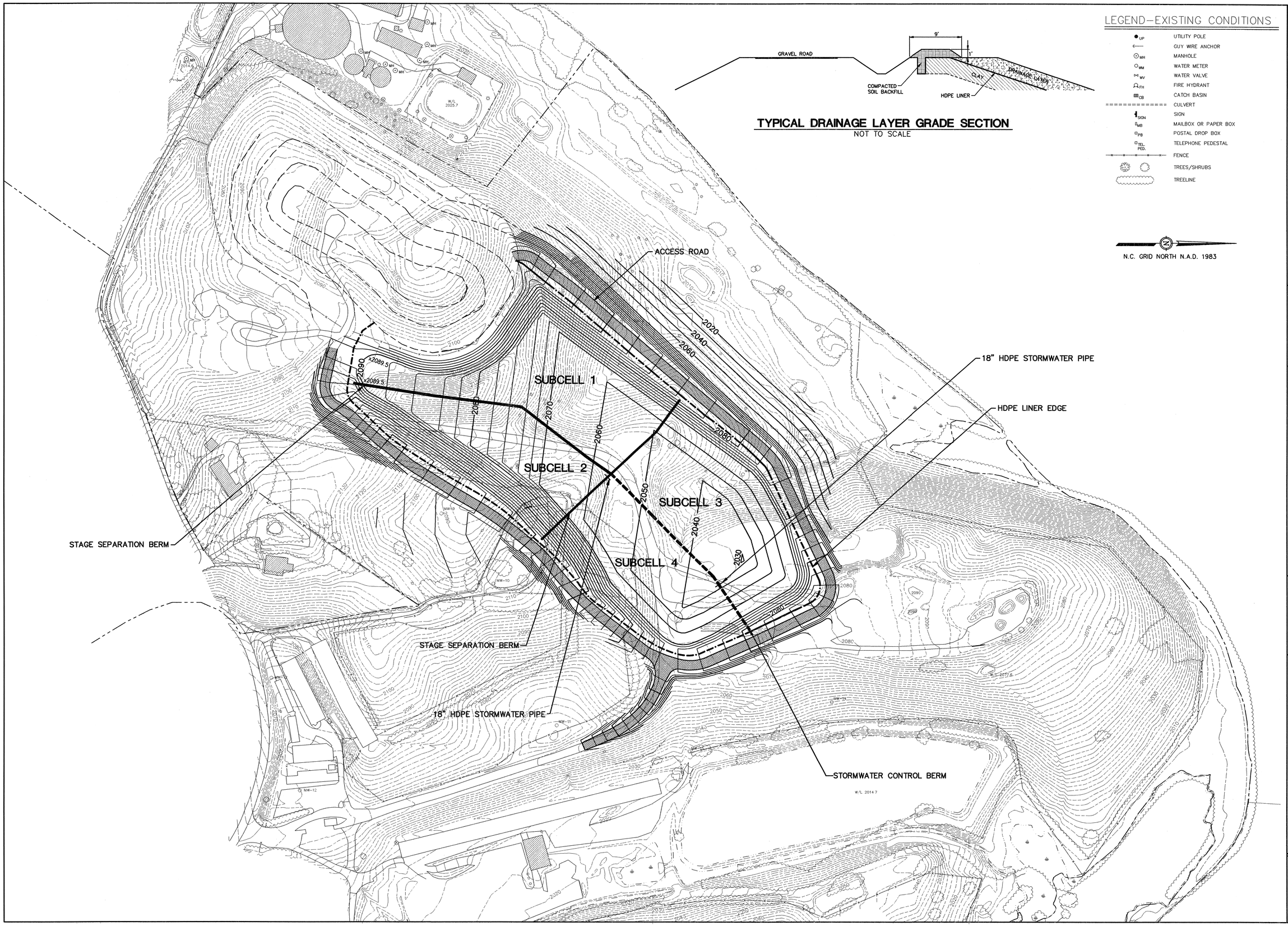
REVISION: 8/13/97

96117CG

CLAY LINER GRADING PLAN

SHEET
4 OF 23



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NORTH CAROLINA PROFESSIONAL SEAL ENGINEER JOEL L. STORMOWITZ
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JOB NO.: 96117.01
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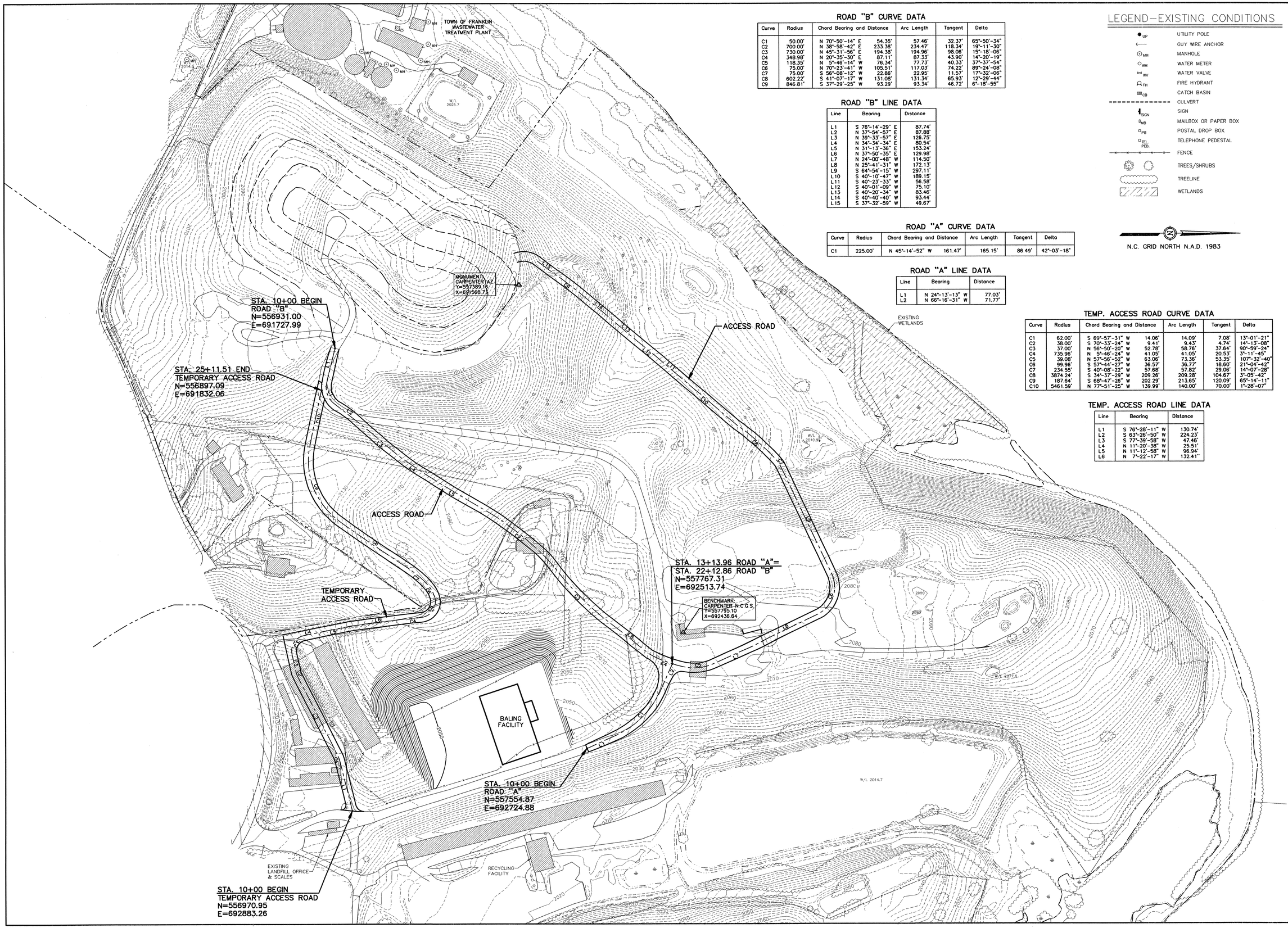
96117DG

DRAINAGE LAYER GRADING PLAN

SHEET
5 OF 23



ROAD "B" CURVE DATA

Curve	Radius	Chord Bearing and Distance	Arc Length	Tangent	Delta
C1	50.00'	N 70°-50'-14" E 54.35'	57.46'	32.37'	65°-50'-34"
C2	700.00'	N 38°-58'-42" E 233.38'	234.47'	118.34'	19°-11'-30"
C3	730.00'	N 45°-31'-46" E 194.38'	194.98'	98.06'	15°-18'-08"
C4	348.98'	N 20°-35'-30" E 87.11'	87.33'	43.90'	14°-20'-19"
C5	118.35'	N 5°-46'-14" W 76.34'	77.73'	40.33'	37°-37'-54"
C6	75.00'	N 70°-23'-41" W 105.51'	117.03'	74.22'	89°-24'-08"
C7	75.00'	S 56°-08'-12" W 22.86'	22.95'	11.57'	17°-32'-06"
C8	602.22'	S 41°-07'-17" W 131.08'	131.34'	65.93'	12°-29'-44"
C9	846.81'	S 37°-29'-25" W 93.29'	93.34'	46.72'	6°-18'-55"

ROAD "B" LINE DATA

Line	Bearing	Distance
L1	S 76°-14'-29" E	87.74'
L2	N 37°-54'-57" E	87.88'
L3	N 39°-33'-57" E	126.75'
L4	N 34°-34'-34" E	80.54'
L5	N 31°-13'-36" E	153.24'
L6	N 37°-50'-35" E	129.98'
L7	N 24°-00'-48" W	114.50'
L8	N 25°-41'-31" W	172.13'
L9	S 64°-54'-15" W	297.11'
L10	S 40°-10'-47" W	189.15'
L11	S 40°-23'-33" W	56.58'
L12	S 40°-01'-09" W	75.10'
L13	S 40°-20'-34" W	83.46'
L14	S 40°-40'-40" W	93.44'
L15	S 37°-32'-59" W	49.67'

ROAD "A" CURVE DATA

Curve	Radius	Chord Bearing and Distance	Arc Length	Tangent	Delta
C1	225.00'	N 45°-14'-52" W 161.47'	165.15'	86.49'	42°-03'-18"

ROAD "A" LINE DATA

Line	Bearing	Distance
L1	N 24°-13'-13" W	77.03'
L2	N 66°-16'-31" W	71.77'

TEMP. ACCESS ROAD CURVE DATA

Curve	Radius	Chord Bearing and Distance	Arc Length	Tangent	Delta
C1	62.00'	S 69°-57'-31" W 14.06'	14.09'	7.08'	13°-01'-21"
C2	38.00'	S 70°-33'-24" W 9.41'	9.43'	4.74'	14°-13'-08"
C3	37.00'	N 56°-50'-20" W 52.78'	58.76'	37.64'	90°-59'-24"
C4	735.96'	N 5°-46'-24" W 41.05'	41.05'	20.53'	3°-11'-45"
C5	39.08'	N 57°-56'-52" W 63.06'	73.36'	53.35'	107°-32'-40"
C6	99.96'	S 57°-44'-27" W 36.57'	36.77'	18.60'	21°-04'-42"
C7	234.55'	S 40°-08'-22" W 57.68'	57.82'	29.06'	14°-07'-28"
C8	3874.24'	S 34°-37'-29" W 209.26'	209.28'	104.67'	3°-05'-42"
C9	187.64'	S 68°-47'-28" W 202.29'	213.65'	120.09'	65°-14'-11"
C10	5461.59'	N 77°-51'-25" W 139.99'	140.00'	70.00'	1°-28'-07"

TEMP. ACCESS ROAD LINE DATA

Line	Bearing	Distance
L1	S 76°-28'-11" W	130.74'
L2	S 63°-26'-50" W	224.23'
L3	S 77°-39'-58" W	47.46'
L4	N 11°-20'-38" W	25.51'
L5	N 11°-12'-58" W	96.94'
L6	N 7°-22'-17" W	132.41'

LEGEND–EXISTING CONDITIONS

- UTILITY POLE
- GUY WIRE ANCHOR
- MANHOLE
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- CATCH BASIN
- CULVERT
- SIGN
- MAILBOX OR PAPER BOX
- POSTAL DROP BOX
- TELEPHONE PEDESTAL
- FENCE
- TREES/SHRUBS
- TREELINE
- WETLANDS

N.C. GRID NORTH N.A.D. 1983

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8-21-97

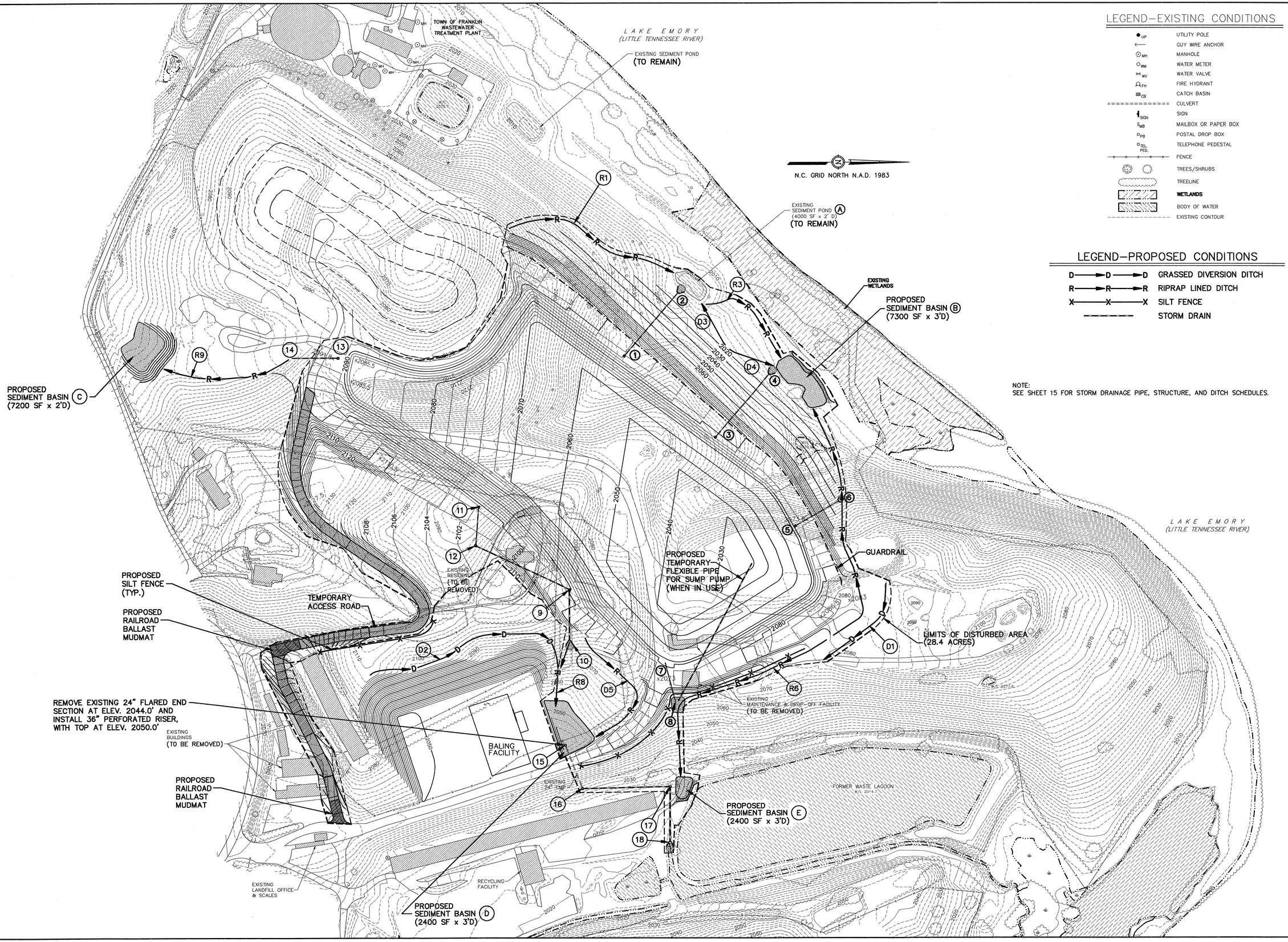
PHASE 2, CELL 1
MACON COUNTY
MSW LANDFILL
MACON COUNTY, NORTH CAROLINA

JOB NO.: 96117.01
DATE: JUNE, 1997
SCALE: 1" = 100'
REVISION: 8/13/97

96117-C6

STAKING PLAN

SHEET
6 OF 23



LEGEND–EXISTING CONDITIONS

- UTILITY POLE (UP)
- GUY WIRE ANCHOR
- MANHOLE (MH)
- WATER METER (WM)
- WATER VALVE (WV)
- FIRE HYDRANT (FH)
- CATCH BASIN (CB)
- CULVERT
- SIGN (SIGN)
- MAILBOX OR PAPER BOX (MB)
- POSTAL DROP BOX (PB)
- TELEPHONE PEDESTAL (TEL. PED.)
- FENCE
- TREES/SHRUBS
- TREELINE
- **WETLANDS**
- BODY OF WATER
- EXISTING CONTOUR

LEGEND–PROPOSED CONDITIONS

- D→D→D GRASSED DIVERSION DITCH
- R→R→R RIPRAP LINED DITCH
- X→X→X SILT FENCE
- STORM DRAIN

NOTE:
SEE SHEET 15 FOR STORM DRAINAGE PIPE, STRUCTURE, AND DITCH SCHEDULES.

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CAROLINA
SEAL
17974
ENGINEER
MICHAEL L. STRANO
6/24/97

PHASE 2, CELL 1
MACON COUNTY
MSW LANDFILL
MACON COUNTY, NORTH CAROLINA

JOB NO.: 96117.01
DATE: JUNE, 1997
SCALE: 1" = 100'
REVISION:

611TECP1

CONSTRUCTION & OPERATION EROSION CONTROL PLAN

SHEET
7 OF 23

NOTES:
1. FILLING OPERATION IN SUBCELL 1 WILL BEGIN BY PLACING UNBALED WASTE TO BUILD ACCESS TO SUBCELL 1 AND COVERING WITH 1 FOOT OF SOIL.
2. WASTE WILL BE PLACED AT SOUTHERN END OF SUBCELL 1 AND PROGRESS TO THE NORTH.
3 WASTE WILL NOT BE PLACED CLOSER THAN 25 FEET FROM EDGE OF LINER AT STAGE BERM. SEE STAGE BERM DETAIL TYPE "A" ON SHEET 21.
4. THE OPERATION WILL CONTINUE UNTIL CONTOURS SHOWN ARE REACHED.
5. FILL ALONG WESTERN SIDE OF SUBCELL 1 SHALL BE BELOW GRADES SHOWN TO ALLOW FOR FINAL CAP.

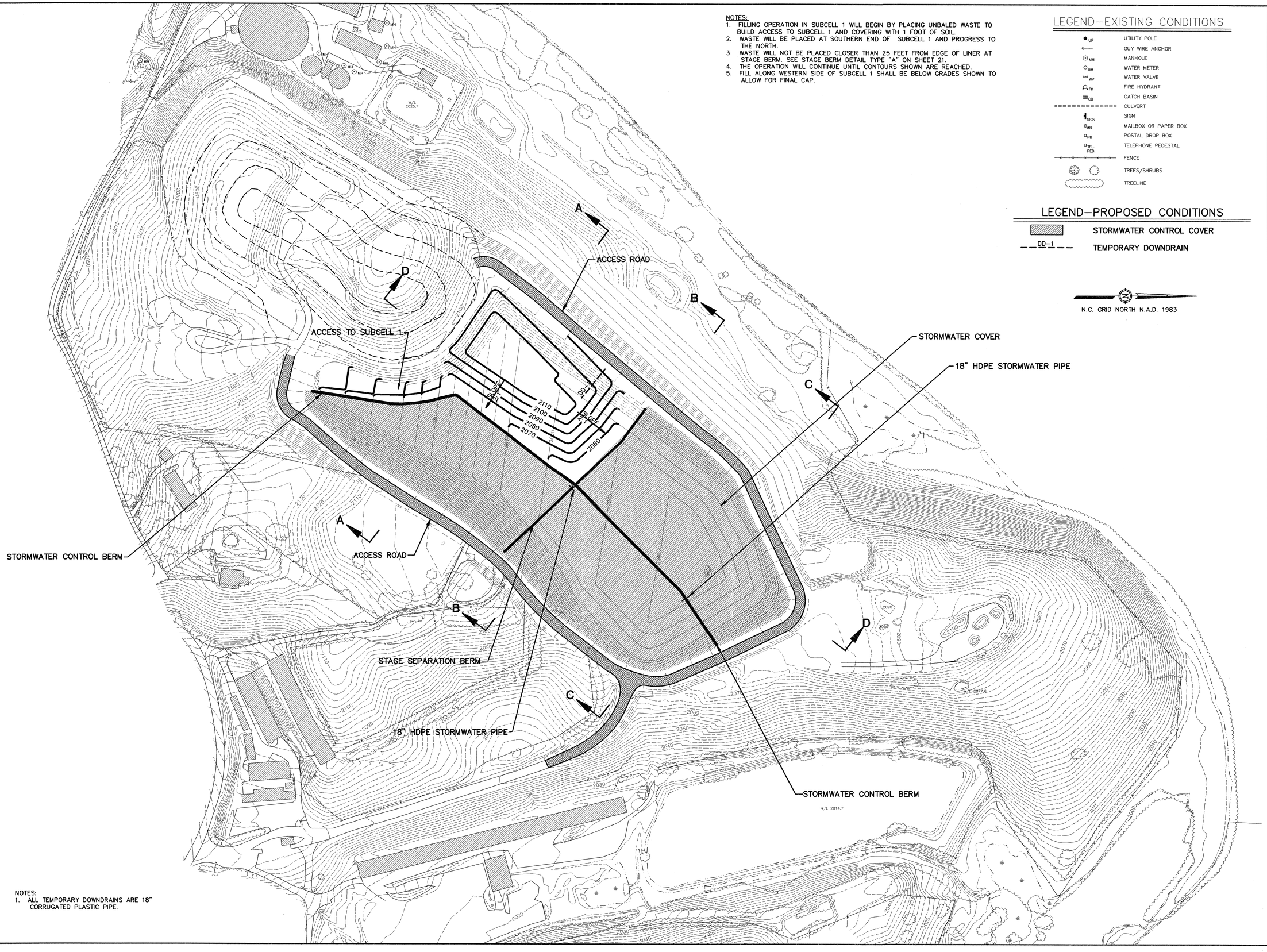
LEGEND–EXISTING CONDITIONS

UP	UTILITY POLE
	GUY WIRE ANCHOR
MH	MANHOLE
WM	WATER METER
WV	WATER VALVE
FH	FIRE HYDRANT
CB	CATCH BASIN
	CULVERT
SIGN	SIGN
MB	MAILBOX OR PAPER BOX
PB	POSTAL DROP BOX
TEL. PED.	TELEPHONE PEDESTAL
	FENCE
	TREES/SHRUBS
	TREELINE

LEGEND–PROPOSED CONDITIONS

	STORMWATER CONTROL COVER
DD-1	TEMPORARY DOWNDRAIN

N.C. GRID NORTH N.A.D. 1983



NOTES:
1. ALL TEMPORARY DOWNDRAINS ARE 18" CORRUGATED PLASTIC PIPE.

McGill ASSOCIATES
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 11274 JOEL L. STORROW
Jul 21-97

PHASE 2, CELL 1
MACON COUNTY
MSW LANDFILL
MACON COUNTY, NORTH CAROLINA

JOB NO.: 96117.01
DATE: MAY 1997
SCALE: 1" = 100'
REVISION: 8/13/97

6117SUB1

SUBCELL 1
FILLING OPERATION

SHEET
8 OF 23

NOTES:
1. PRIOR TO PLACING WASTE IN SUBCELL 2, THE STORMWATER COVER WITHIN THE LIMITS OF SUBCELL 2 WILL BE REMOVED AND THE 18" STORMWATER PIPE BETWEEN SUBCELL 2 AND SUBCELL 4 WILL BE REMOVED OR CAPPED.
2. THE FILLING OPERATION FOR SUBCELL 2 WILL BEGIN IN THE SOUTHERN END AND PROGRESS IN A NORTHERLY DIRECTION.
3. FILLING SHALL CONTINUE IN SUBCELL 2 UNTIL CONTOURS SHOWN ARE REACHED.
4. FILL ALONG EASTERN SIDE OF SUBCELL 2 SHALL BE BELOW GRADES SHOWN TO ALLOW FOR FINAL CAP.
5. WASTE WILL NOT BE PLACED CLOSER THAN 25 FEET FROM TOP OF STAGE SEPARATION BERM BETWEEN SUBCELL 2 AND SUBCELL 4.

LEGEND–EXISTING CONDITIONS

- UTILITY POLE (UP)
- GUY WIRE ANCHOR
- MANHOLE (MH)
- WATER METER (WM)
- WATER VALVE (WV)
- FIRE HYDRANT (FH)
- CATCH BASIN (CB)
- CULVERT
- SIGN
- MAILBOX OR PAPER BOX (MB)
- POSTAL DROP BOX (PB)
- TELEPHONE PEDESTAL (TEL. PED.)
- FENCE
- TREES/SHRUBS
- TREELINE

LEGEND–PROPOSED CONDITIONS

- STORMWATER CONTROL COVER
- DD–1 TEMPORARY DOWNDRAIN

N.C. GRID NORTH N.A.D. 1983

ACCESS ROAD
STORMWATER COVER
18" HDPE STORMWATER PIPE
STAGE SEPARATION BERM
STORMWATER CONTROL BERM
SLOPE 3.5:1
DD–1
DD–2
W/L 2025.7
W/L 2014.7

NOTES:
1. REMOVE 18" HDPE STORMWATER PIPE BETWEEN SUBCELL 2 AND SUBCELL 4 PRIOR TO PLACING WASTE IN SUBCELL 2.
2. ALL TEMPORARY DOWNDRAINS ARE 18" CORRUGATED PLASTIC PIPE.

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5-21-97

PHASE 2, CELL 1
MACON COUNTY
MSW LANDFILL
MACON COUNTY, NORTH CAROLINA

SUBCELL 2 FILLING OPERATION

JOB NO.: 96117.01
DATE: MAY 1997
SCALE: 1" = 100'
REVISION: 8/13/97

61175UB2

SHEET 9 OF 23

NOTES:
1. PRIOR TO PLACING WASTE IN SUBCELL 3, THE STORMWATER COVER WITHIN THE LIMITS OF SUBCELL 3 SHALL BE REMOVED AND THE 18" STORMWATER PIPE BETWEEN SUBCELL 3 AND SUBCELL 4 WILL BE REMOVED OR CAPPED.
2. THE FILLING OPERATION FOR SUBCELL 3 WILL BEGIN IN THE SOUTHERN END AND PROGRESS IN A NORTHERLY DIRECTION.
3. FILLING SHALL CONTINUE IN SUBCELL 3 UNTIL CONTOURS SHOWN ARE REACHED.
4. FILL ALONG WESTERN SIDE OF SUBCELL 3 SHALL BE BELOW GRADES SHOWN TO ALLOW FOR FINAL CAP.
5. THE FILLING OF SUBCELL 3 IS THE FINAL FILLING FOR THE INITIAL 5 YEAR FILLING PHASE. PRIOR TO PLACING WASTE IN SUBCELL 4, AN APPLICATION TO AMMEND THE PERMIT MUST BE MADE TO THE SOLID WASTE DIVISION.
6. WASTE WILL NOT BE PLACED CLOSER THAN 25 FEET FROM THE TOP OF THE STORMWATER CONTROL BERM BETWEEN SUBCELL 3 AND SUBCELL 4.

LEGEND–EXISTING CONDITIONS

- UP — UTILITY POLE
- GUY WIRE ANCHOR
- MH — MANHOLE
- WM — WATER METER
- WV — WATER VALVE
- FH — FIRE HYDRANT
- CB — CATCH BASIN
- CULVERT
- SIGN — SIGN
- MB — MAILBOX OR PAPER BOX
- PB — POSTAL DROP BOX
- TEL PED. — TELEPHONE PEDESTAL
- FENCE
- TREES/SHRUBS
- TREELINE

LEGEND–PROPOSED CONDITIONS

- STORMWATER CONTROL COVER
- DD-1 — TEMPORARY DOWNDRAIN

N.C. GRID NORTH N.A.D. 1983

ACCESS ROAD
STAGE SEPARATION BERM
STORMWATER COVER
STORMWATER CONTROL BERM
SLOPE 3:1
W/L 2014.7
W/L 2025.7
W/L 2077.8
W/L 2014.7

NOTES:
1. REMOVE 18" HDPE STORMWATER PIPE BETWEEN SUBCELL 3 AND SUBCELL 4 PRIOR TO PLACING WASTE IN SUBCELL 3.
2. ALL TEMPORARY DOWNDRAINS ARE 18" CORRUGATED PLASTIC PIPE.

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MACON COUNTY
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MACON COUNTY, NORTH CAROLINA

JOB NO.: 96117.01
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61175UB3

SUBCELL 3 FILLING OPERATION

SHEET
10 OF 23

NOTES:
1. PRIOR TO PLACING WASTE IN SUBCELL 4 AN APPLICATION TO AMMEND THE PERMIT MUST BE MADE TO THE SOLID WASTE DIVISION.
2. PRIOR TO PLACING WASTE IN SUBCELL 4, THE STORMWATER COVER SHALL BE COMPLETELY REMOVED.
3. THE FILLING OPERATION FOR SUBCELL 4 WILL BEGIN IN THE SOUTHERN END AND PROGRESS IN A NORTHERLY DIRECTION.
4. FILL ALONG THE EASTERN AND NORTHERN SIDES OF SUBCELL 4 MUST BE BELOW CONTOURS SHOWN TO ALLOW FOR FINAL CAP.

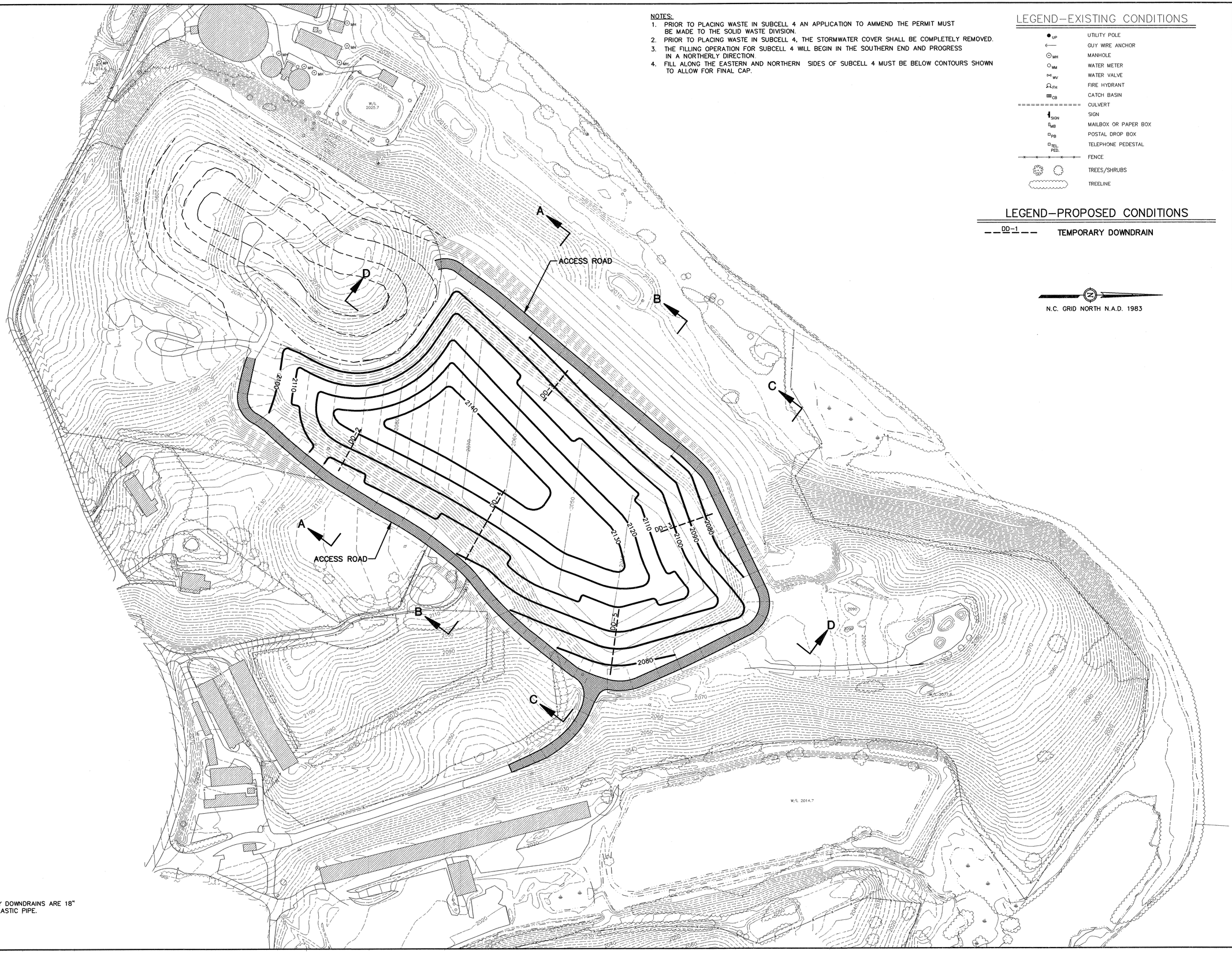
LEGEND–EXISTING CONDITIONS

- UP — UTILITY POLE
- GUY WIRE ANCHOR
- MH — MANHOLE
- WM — WATER METER
- WV — WATER VALVE
- FH — FIRE HYDRANT
- CB — CATCH BASIN
- CULVERT
- SIGN — SIGN
- MB — MAILBOX OR PAPER BOX
- PB — POSTAL DROP BOX
- TEL PED. — TELEPHONE PEDESTAL
- FENCE
- TREES/SHRUBS
- TREELINE

LEGEND–PROPOSED CONDITIONS

- DD-1 — TEMPORARY DOWNDRAIN

N.C. GRID NORTH N.A.D. 1983



NOTE:
1. ALL TEMPORARY DOWNDRAINS ARE 18" CORRUGATED PLASTIC PIPE.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 021997 JOE L. STOUDEMIRE
8-21-97

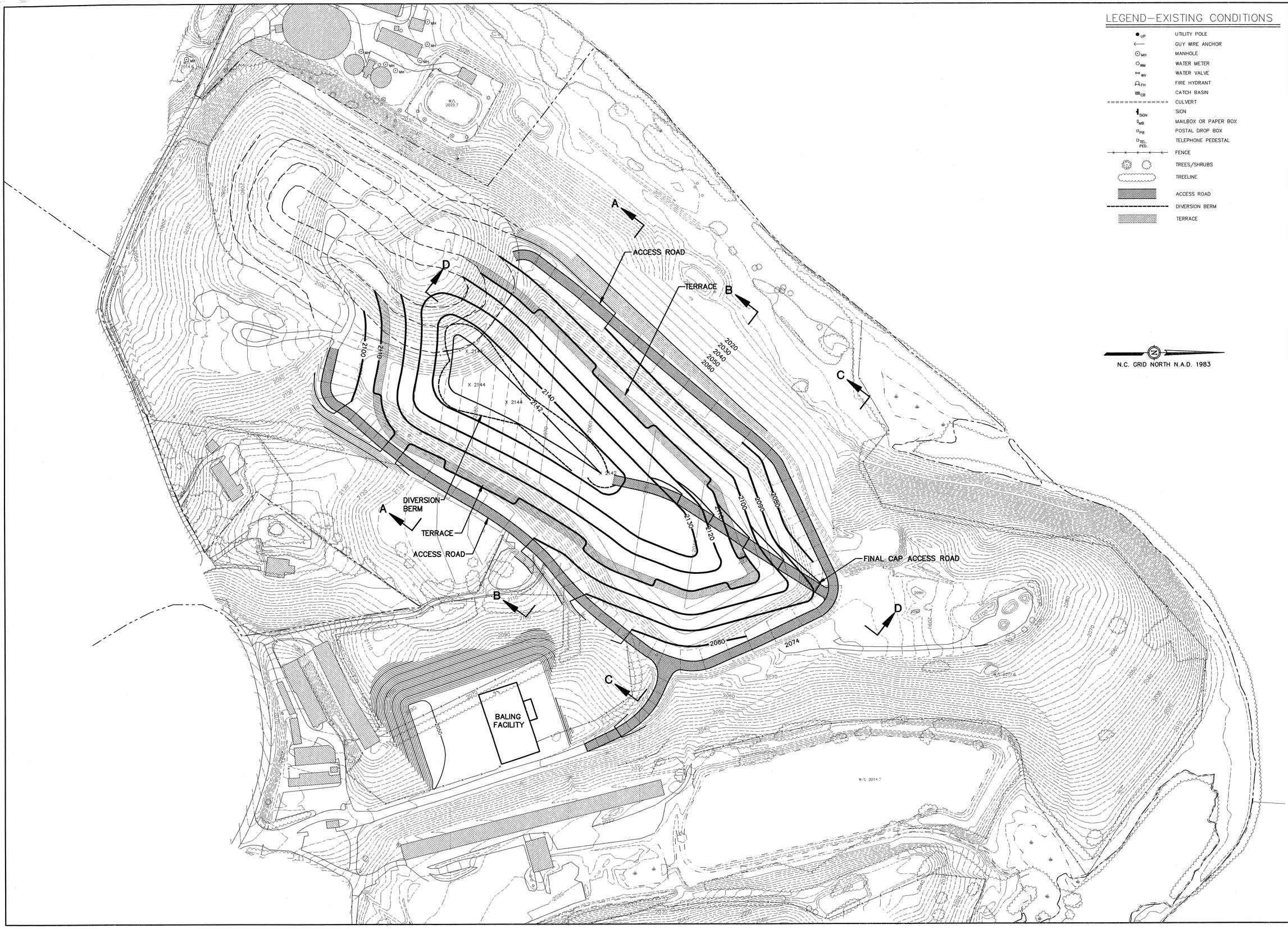
PHASE 2, CELL 1
MACON COUNTY MSW LANDFILL
MACON COUNTY, NORTH CAROLINA

JOB NO.: 96117.01
DATE: MAY 1997
SCALE: 1" = 100'
REVISION: 8/13/97

61175UB4

SUBCELL 4 FILLING OPERATION

SHEET
11 OF 23



LEGEND–EXISTING CONDITIONS

- UTILITY POLE
- GUY WIRE ANCHOR
- MANHOLE
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- CATCH BASIN
- CULVERT
- SIGN
- MAILBOX OR PAPER BOX
- POSTAL DROP BOX
- TELEPHONE PEDESTAL
- FENCE
- TREES/SHRUBS
- TREELINE
- ACCESS ROAD
- DIVERSION BERM
- TERRACE

N.C. GRID NORTH N.A.D. 1983

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 14774 JOEL L. STORR
8-21-97

PHASE 2, CELL 1
MACON COUNTY MSW LANDFILL
MACON COUNTY, NORTH CAROLINA

JOB NO.: 96117.01
DATE: MAY 1997
SCALE: 1" = 100'
REVISION: 8/13/97

96117CAP

FINAL GRADING PLAN

SHEET 12 OF 23

EXISTING SEDIMENT POND (TO REMAIN)

EXISTING SEDIMENT POND (A) (4000 SF x 2' D) (TO REMAIN)

PROPOSED SEDIMENT BASIN (B) (7300 SF x 3'D)

PROPOSED SEDIMENT BASIN (C) (7200 SF x 2'D)

ACCESS ROAD

TERRACE

DIVERSION BERM

PROPOSED SILT FENCE (TYP.)

REMOVE EXISTING 24" FLARED END SECTION AT ELEV. 2044.0' AND INSTALL 36" PERFORATED RISER, WITH TOP AT ELEV. 2050.0'

BALING FACILITY

EXISTING 24" CMP

PROPOSED TEMPORARY FLEXIBLE PIPE FOR SUMP PUMP (WHEN IN USE)

FINAL CAP ACCESS ROAD

PROPOSED SEDIMENT BASIN (D) (2400 SF x 3'D)

PROPOSED SEDIMENT BASIN (E) (2400 SF x 3'D)

LEGEND–EXISTING CONDITIONS

- UTILITY POLE
- GUY WIRE ANCHOR
- MANHOLE
- WATER METER
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- ACCESS ROAD
- DIVERSION BERM
- TERRACE

LEGEND–PROPOSED CONDITIONS

- D—D—D GRASSED DIVERSION DITCH
- R—R—R RIPRAP LINED DITCH
- X—X—X SILT FENCE
- STORM DRAIN

N.C. GRID NORTH N.A.D. 1983

NOTE:
SEE SHEET 15 FOR STORM DRAINAGE PIPE, STRUCTURE, AND DITCH SCHEDULES.

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JOB NO.: 96117.01
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REVISION:

6117ECP2

PERMANENT EROSION CONTROL PLAN

SHEET
13 OF 23

GENERAL CONSTRUCTION NOTES

1. FINISH GRADE TOLERANCES SHALL BE AS SPECIFIED IN THE SPECIFICATIONS. THE ENGINEER MAY MAKE GRADE CHANGES AS NECCESSITATED IN THE FIELD WITHOUT EFFECTING THE UNIT BID PRICE FOR UNCLASSIFIED EXCAVATION.
2. UNLESS OTHERWISE STATED, ALL FILL AREAS SHALL BE CONSTRUCTED IN LAYERS OF 8" MAXIMUM THICKNESS, WITH WATER ADDED OR SOIL CONDITIONED TO THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE ENGINEER AND COMPACTED WITH A SHEEP'S FOOT ROLLER TO A COMPACTION EQUAL TO OR GREATER THAN 95% (100% IN THE TOP 2' OF THE SUBGRADE BELOW ROADWAYS AND PARKING LOTS) OF THE DENSITY OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH THE STANDARD PROCTOR METHOD OF MOISTURE-DENSITY RELATIONSHIP TEST, ASTM D698 OR AASHTO-99 UNLESS SPECIFIED IN OTHER SPECIFICATIONS.
3. ENTIRE AREA TO BE GRADED SHALL BE CLEARED AND GRUBBED. NO FILL SHALL BE PLACED ON ANY AREA NOT CLEARED AND GRUBBED.
4. ALL SOIL EROSION CONTROL MEASURES REQUIRED BY THE GRADING PLAN SHALL BE PERFORMED PRIOR TO GRADING, CLEARING OR GRUBBING. ALL EROSION CONTROL DEVICES SUCH AS SILT FENCES, ETC., SHALL BE MAINTAINED IN WORKABLE CONDITION FOR THE LIFE OF THE PROJECT AND SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT ONLY ON THE ENGINEER'S APPROVAL. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO CLEARING AND GRUBBING. IF DURING THE LIFE OF THE PROJECT, A STORM CAUSES SOIL EROSION WHICH CHANGES FINISH GRADES OR CREATES "GULLIES" AND "WASHED AREAS", THESE SHALL BE REPAIRED AT NO EXTRA COST, AND ALL SILT WASHED OFF OF THE PROJECT SITE ONTO ADJACENT PROPERTY SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AT NO EXTRA COST. THE CONTRACTOR SHALL ADHERE TO ANY APPROVED EROSION CONTROL PLANS WHETHER INDICATED IN THE CONSTRUCTION PLANS OR UNDER SEPARATE COVER.
5. DISPOSABLE MATERIAL
   - A. CLEARING AND GRUBBING WASTES SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE, UNLESS SPECIFIED OTHERWISE.
   - B. SOLID WASTES TO BE REMOVED, SUCH AS SIDEWALKS, CURBS, PAVEMENT, ETC., MAY BE PLACED IN SPECIFIC DISPOSAL AREAS DELINEATED ON THE PLANS OR REMOVED FROM THE SITE AS REQUIRED BY THE SPECIFICATIONS. THIS MATERIAL SHALL HAVE A MINIMUM COVER OF 2'. THE CONTRACTOR SHALL MAINTAIN SPECIFIED COMPACTION REQUIREMENTS IN THESE AREAS. WHEN DISPOSAL SITES ARE NOT PROVIDED, THE CONTRACTOR SHALL REMOVE THIS WASTE FROM THE SITE AND PROPERLY DISPOSE OF IT AT HIS EXPENSE.
   - C. ABANDONED UTILITIES SUCH AS CULVERTS, WATER PIPE, HYDRANTS, CASTINGS, PIPE APPURTENANCES, UTILITY POLES, ETC., SHALL BE THE PROPERTY OF THE SPECIFIC UTILITY AGENCY, OR COMPANY HAVING JURISDICTION. BEFORE THE CONTRACTOR CAN REMOVE, DESTROY, SALVAGE, REUSE, SELL OR STORE FOR HIS OWN USE ANY ABANDONED UTILITY, HE MUST PRESENT TO THE OWNER WRITTEN PERMISSION FROM THE UTILITY INVOLVED.
   - D. ON SITE BURNING IS AN ACCEPTABLE METHOD OF DISPOSING OF FLAMMABLE WASTES. WHEN BURNING IS ANTICIPATED, IN ADDITION TO OBTAINING ALL NECESSARY PERMITS AND MEETING GOVERNING CODES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS TO THE SPECIFIC LOCATION OF BURNING AND SHALL NOT BURN WITHOUT THE ENGINEER'S APPROVAL OF THE BURNING SITE.

     AFTER BURNING IS COMPLETED, PURE ASH MAY BE DISPOSED OF BY MIXING WITH FILL DIRT. ALL MATERIAL NOT TOTALLY BURNED SHALL BE DISPOSED OF AS SPECIFIED IN "B" ABOVE. THE CONTRACTOR SHALL NOT HOLD UP WORK PROGRESS FOR THE PURPOSE OF WAITING FOR A "BURNING DAY".
6. IN THE EVENT EXCESSIVE GROUNDWATER OR SPRINGS ARE ENCOUNTERED WITHIN THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL NECCESSARY UNDERDRAINS AND STONE AS DIRECTED BY THE ENGINEER. ALL WORK SHALL BE PAID BASED UPON UNIT BIDS, UNLESS SPECIFIED OTHERWISE.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ADJUSTMENT OF ALL UTILITY SURFACE ACCESSES WHETHER HE PERFORMS THE WORK OR A UTILITY COMPANY PERFORMS THE WORK.
8. THE CONTRACTOR SHALL CONTROL ALL "DUST" BY PERIODIC WATERING AND SHALL PROVIDE ACCESS AT ALL TIMES FOR PROPERTY OWNERS WITHIN THE PROJECT AREA AND FOR EMERGENCY VEHICLES. ALL OPEN DITCHES AND HAZARDOUS AREAS SHALL BE CLEARLY MARKED IN ACCORDANCE WITH THE SPECIFICATIONS.
9. ALL AREAS WHERE THERE IS EXPOSED DIRT SHALL BE SEEDED, FERTILIZED AND MULCHED ACCORDING TO THE SPECIFICATIONS. THE FINISHED SURFACE SHALL BE TO GRADE AND SMOOTH, FREE OF ALL ROCKS LARGER THAN 3", EQUIPMENT TRACKS, DIRT CLODS, BUMPS, RIDGES AND GOUGES PRIOR TO SEEDING; THE SURFACE SHALL BE LOOSENED TO A DEPTH OF 1" (+/-) TO ACCEPT SEED. THE CONTRACTOR SHALL NOT PROCEED WITH SEEDING OPERATIONS WITHOUT FIRST OBTAINING THE ENGINEER'S APPROVAL OF THE GRADED SURFACE. ALL SEEDING SHALL BE PERFORMED BY A MECHANICAL "HYDRO-SEEDER". HAND SEEDING SHALL BE AUTHORIZED ON AN AREA BY AREA APPROVAL BY THE ENGINEER.
10. ALL STORM DRAIN PIPE SHALL BE CORRUGATED METAL PIPE CONFORMING TO AASHTO M-36, WITH REROLLED ENDS TO ACCOMMODATE CORRUGATED COUPLING BANDS. 18" PIPE SHALL BE 16 GAUGE, 24" AND 30" PIPE SHALL BE 14 GAUGE AND 36" PIPE AND OVER SHALL BE 12 GAUGE. COUPLING BANDS SHALL CONFORM TO NCDOT 932-3(A). DIMPLE BANDS SHALL NOT BE USED.
11. CONTRACTOR SHALL VERIFY ALL ELEVATIONS BEFORE INSTALLATION OF FACILITIES.
12. DRAINAGE STRUCTURES CAST-IN-PLACE SHALL CONFORM TO THE REQUIREMENTS OF NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES (LATEST EDITION) ARTICLES 840-1 THROUGH 840-3. JUNCTION BOXES SHALL CONFORM TO STANDARD DETAIL 840.31.
13. CONCRETE AND MASONRY SHALL MEET THE REQUIREMENTS OF APPROPRIATE SECTION OF NCDOT STANDARD SPECIFICATIONS FOR ROAD AND STRUCTURES (LATEST EDITION). CONCRETE SHALL BE CLASS A OR B, 4000 PSI MINIMUM, MEETING THE REQUIREMENTS OF SECTION 900, CONSTRUCTED IN ACCORDANCE WITH SECTION 825. MASONRY SHALL MEET THE REQUIREMENTS OF SECTON 940, CONSTRUCTED IN ACCORDANCE WITH SECTION 830 AND/OR 834.
14. TOPS OF PROPOSED FRAMES AND GRATES SHALL BE FLUSH WITH FINISHED GRADE.
15. ALL CATCH BASINS SHALL BE NCDOT No. 840.04.

EROSION CONTROL

General: All erosion control measures are to be performed in strict accordance with requirements of the North Carolina Department of Environment, Health and Natural Resources, Division of Land Resources, Land Quality Section. The following construction sequence shall be complied with for all work.

1 – Obtain Grading Permit.

2 – Install all erosion control measures as required by the North Carolina Department of Environment, Health and Natural Resources, Division of Land Resources, Land Quality Section.
   - A. Install all fencing and the mud mat prior to disturbing the project site.
   - B. Clear, grub and strip the site. Install erosion control measures (temporary sediment basins) as land disturbing activities progress.
   - C. Install the storm drain pipes and riprap the inlet and outlet of the pipes at the entrance.
   - D. Install all sediment basin at site perimeter.

3 – Obtain certificate of compliance through on-site inspection by a representative of the North Carolina Department of Environment, Health and Natural resources, Division of Land Resources, Land Quality Section.

4 – Proceed with grading, clearing and grubbing.

5 – As grading progresses and ditches are formed, install check dams at 150 feet intervals until riprap and synthetic linings can be installed.

6 – Construct slope drains and adjust them as building pads are constructed.

7 – Seed and mulch denuded area within 30 days after finished grades are established. Seed and soil amendments shall be placed on a prepared seedbed at the following rates per acre:

Lime	4,000 Lbs.
Fertilizer (10-10-10)	1,000 Lbs.
KY-31 Fescue	100 Lbs.
Straw Mulch	60-80 Bales

For summer seeding add to the above:

German Millet	10 Lbs.
Sudangrass	15 Lbs.

For winter seeding add to the above:

Rye Grain	15 Lbs.

For steep slopes add to the above:

Sericea Lespedeza	40 Lbs.

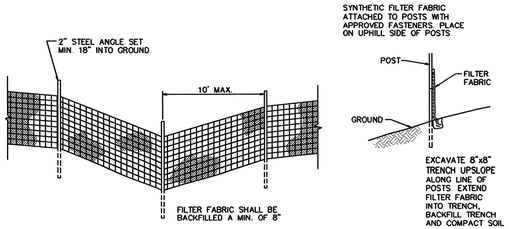
If hydroseeding is used, wood cellulose may be substituted for straw mulch at the rate of 1,000 lbs. per acre.

All seeding shall be maintained, watered, etc., until a permanent vegetative ground cover is established over all disturbed areas.

8 – Maintain soil erosion control measures until permanent ground cover is established.

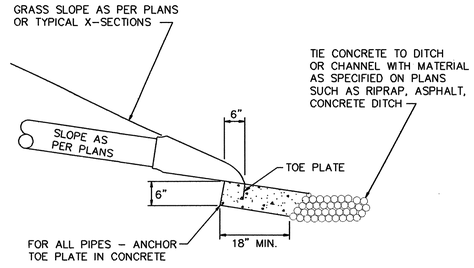
9 – Remove soil erosion control measures and stabilize these areas.

10 – Request final approval by the North Carolina Department of Environment, Health and Natural Resources, Division of Land Resources, Land Quality Section.



STANDARD SILT FENCE

NOTES:
1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. REPAIR SHALL BE MADE AS NECESSARY.
2. FABRIC SHALL BE REPLACED PROMPTLY IF FOUND TO BE IN DISREPAIR.
3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT AND WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.

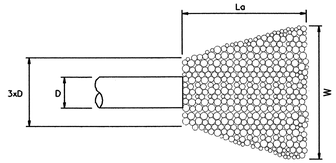


OUTFALL

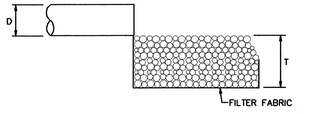
FLARED END SECTION

RIPRAP APRON SIZING

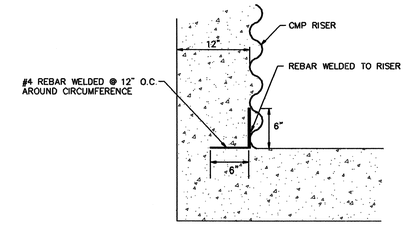
PIPE OUTLET	'D'	FLOW (CFS)	3D	La	W	d50
S3	12"	5.8	3'	10'	11'	9"
S6	12"	6.6	3'	11'	12'	9"
S8	12"	2.9	3'	6'	7'	9"
S10	12"	3.3	3'	6'	7'	9"
S13	18"	6.6	5'	10'	12'	9"
S16	18"	4.4	5'	10'	12'	9"
S18	12"	4.4	5'	8'	9'	9"
2	18"	10.2	5'	10'	12'	9"
4	18"	10.2	5'	10'	12'	9"
6	18"	9.1	5'	10'	12'	9"
8	18"	11.7	5'	11'	13'	9"
10	30"	25.2	8'	16'	19'	9"
14	24"	11.0	6'	14'	16'	9"
18	36"	35.5	9'	20'	23'	9"



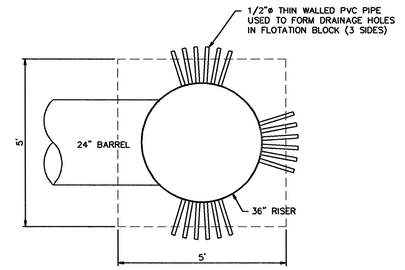
D = PIPE DIA. IN INCHES
T = 18" CLASS B RIPRAP

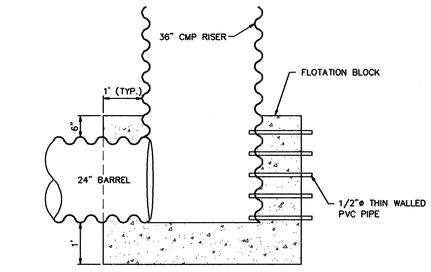


RIPRAP AT PIPE INLET / OUTLET

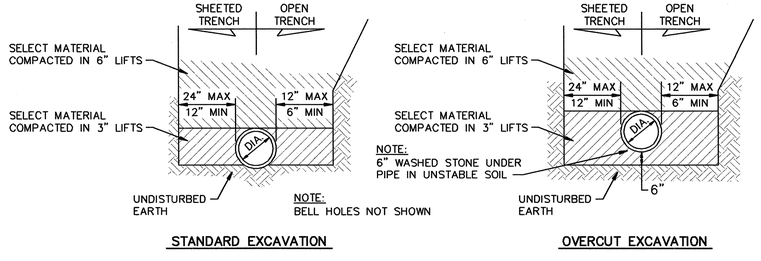


RISER ANCHOR DETAIL





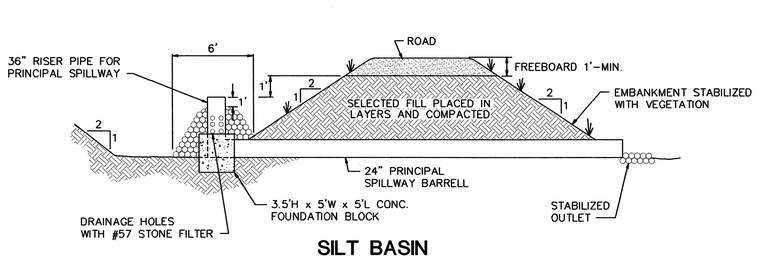
FLOATATION BLOCK PERFORATION



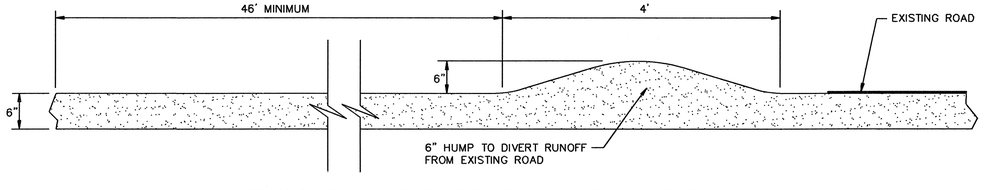
STANDARD EXCAVATION

OVERCUT EXCAVATION

TYPICAL TRENCHING DETAILS

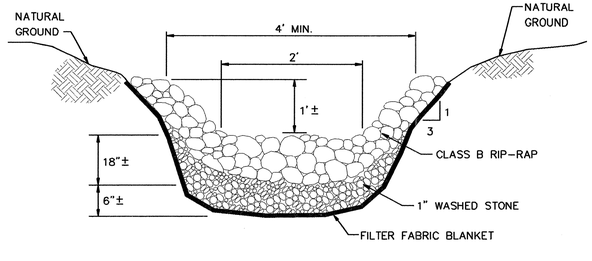


SILT BASIN WITH RISER DETAIL



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE / EXIT : WIDTH 24'-0", LENGTH 50'-0"

MUD MAT



RIP-RAP CHECK DAM

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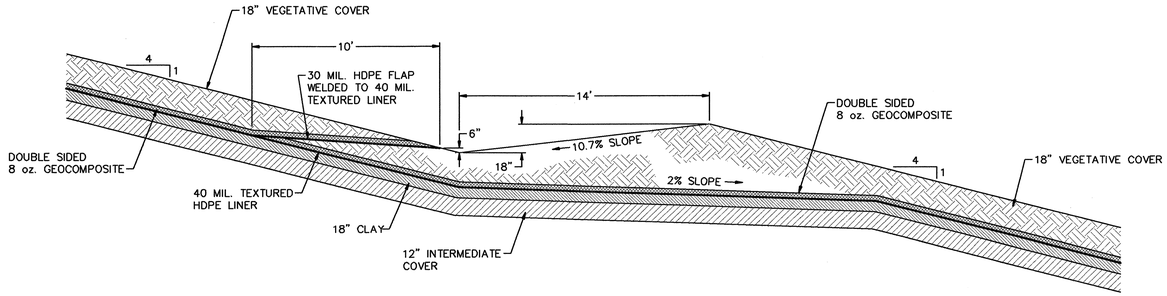
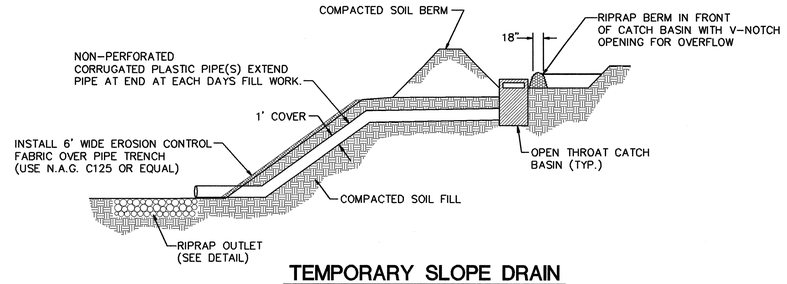
6117ECD1

EROSION CONTROL DETAILS

SHEET
14 OF 23



TERRACE DETAIL



TEMPORARY SLOPE DRAIN FOR "LET-DOWN" STRUCTURE

(SEE STORM DRAIN PIPE SCHEDULE FOR SIZES)

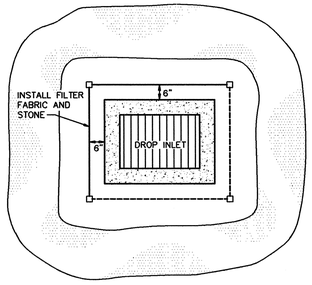
STORM DRAINAGE STRUCTURE SCHEDULE

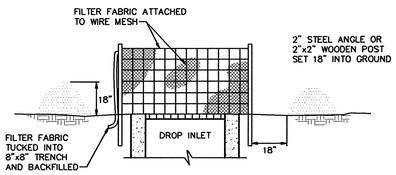
DRAINAGE STRUCTURE	TYPE	TOP ELEVATION	INV. ELEVATION
S1	OPEN THROAT C.B.	2141	2138
S2	OPEN THROAT C.B.	2109	2106
S3	FLARED END	---	2085
1	OPEN THROAT C.B.	2087	2084
2	FLARED END	---	2016
S4	OPEN THROAT C.B.	2141	2138
S5	OPEN THROAT C.B.	2109	2106
S6	FLARED END	---	2074
3	OPEN THROAT C.B.	2079	2076
4	FLARED END	---	2010
S7	OPEN THROAT C.B.	2109	2106
S8	FLARED END	---	2084
5	OPEN THROAT C.B.	2073	2070
6	FLARED END	---	2042
S9	OPEN THROAT C.B.	2109	2106
S10	FLARED END	---	2074
7	OPEN THROAT C.B.	2072	2069
8	FLARED END	---	2062
S11	OPEN THROAT C.B.	2141	2138
S12	OPEN THROAT C.B.	2109	2106
S13	FLARED END	---	2098
9	OPEN THROAT C.B.	2090	2087
10	FLARED END	---	2085
S14	OPEN THROAT C.B.	2141	2138
S15	OPEN THROAT C.B.	2109	2106
S16	FLARED END	---	2105
11	OPEN THROAT C.B.	2101	2098
12	OPEN THROAT C.B.	2101	2096
S17	OPEN THROAT C.B.	2109	2106
S18	FLARED END	---	2104
13	OPEN THROAT C.B.	2191	2188
14	FLARED END	---	2186
15	RISER	2050	2044
16	JUNCTION BOX	2039	2035
17	JUNCTION BOX	2021	2017
18	FLARED END	---	2015

NOTES:
1. ALL CATCH BASINS SHALL BE NCDOT No. 840.04.
2. SEDIMENT PROTECTION REQUIRED AROUND EACH STRUCTURE IMMEDIATELY AFTER INSTALLATION OF STRUCTURE.

STORM DRAINAGE PIPE SCHEDULE

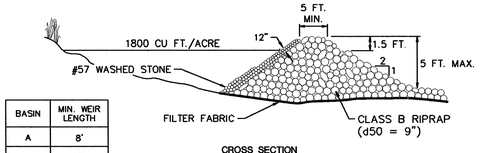
PIPE SECTION	MATERIAL	LENGTH	SIZE	SLOPE
S1-S2	C.P.P.	145'	12"	22%
S2-S3	C.P.P.	80'	12"	26%
1-2	C.M.P.	200'	18"	34%
S4-S5	C.P.P.	145'	12"	22%
S5-S6	C.P.P.	130'	12"	25%
3-4	C.M.P.	200'	18"	33%
S7-S8	C.P.P.	170'	12"	13%
5-6	C.M.P.	120'	18"	23%
S9-S10	C.P.P.	180'	12"	18%
7-8	C.M.P.	100'	18"	7%
S11-S12	C.P.P.	145'	12"	22%
S12-S13	C.P.P.	80'	18"	10%
9-10	C.M.P.	120'	30"	2%
S14-S15	C.P.P.	145'	12"	22%
S15-S16	C.P.P.	130'	18"	1%
12-9	C.M.P.	250'	24"	4%
11-12	C.M.P.	90'	18"	2%
S17-S18	C.P.P.	30'	12"	7%
13-14	C.M.P.	110'	12"	2%
15-16	C.M.P.	110'	24"	8%
16-17	C.M.P.	210'	24"	9%
17-18	C.M.P.	135'	36"	1.5%





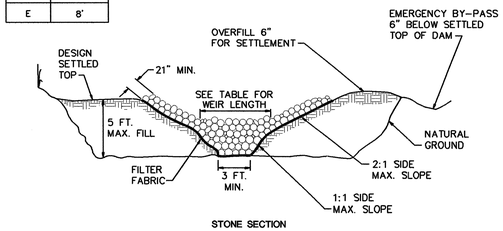
DROP INLET PROTECTION

NOTES:
1. ATTACH WIRE AND FABRIC TO POSTS ON UPHILL SIDE OF FENCE WITH APPROVED FASTENERS.
2. FILTERS SHALL BE INSPECTED AFTER EVERY RAIN AND REPAIRED AS REQUIRED.
3. SEDIMENT SHALL BE REMOVED AFTER DEPOSITS REACH 1/3 HEIGHT OF BARRIER.



CROSS SECTION

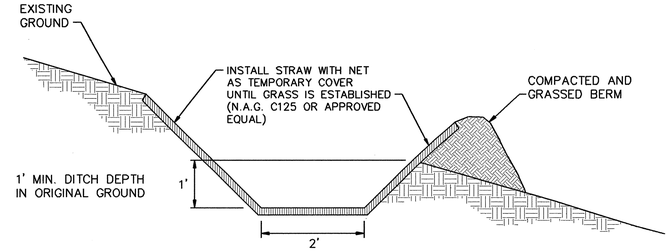
BASIN	MIN. WEIR LENGTH
A	8'
B	10'
C	8'
D	10'
E	8'



STONE SECTION

TEMPORARY SEDIMENT BASIN

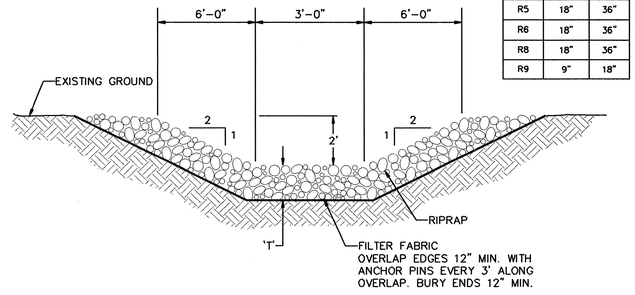
NOTES:
1. FILTER BARRIERS SHALL BE INSPECTED AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. REPAIR SHALL BE MADE AS NECESSARY.
2. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT AND WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.



TEMPORARY DIVERSION DITCH (GRASS LINED)

NOTE: USE FOR DITCHES D1, D2, D3, D4, D5.

DITCH	d50 RIPRAP SIZE	'T'
R1	9"	18"
R3	9"	18"
R5	18"	36"
R6	18"	36"
R8	18"	36"
R9	9"	18"



RIPRAP DITCH DETAIL

NOTE: USE FOR DITCHES R1, R3, R5, R6, R8, R9.

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PROFESSIONAL ENGINEER SEAL 024497 CAROLINA HOWARD KNIGHT

PHASE 2, CELL 1
MACON COUNTY
MSW LANDFILL
MACON COUNTY, NORTH CAROLINA

JOB NO.: 96117.00
DATE: MAY 1997
SCALE: NOT TO SCALE
REVISION:
6117ECD2

EROSION CONTROL DETAILS

SHEET
15 OF 23

LEACHATE SURFACE IMPOUNDMENT

6" CONDENSATE DISCHARGE LINE

6" HDPE GAS LATERALS

ACCESS ROAD

10" HDPE GAS HEADER (TYP.)

DUAL-CONTAINED FORCE MAIN (SEE SHEET 4)

GAS COLLECTION WELL (TYP.)

MIN. 3% SLOPE

MIN. 3% SLOPE

ACCESS ROAD

2" CONDENSATE RETURN LINE FROM GAS CONDENSATE PUMP TO DUAL-CONTAINED FORCE MAIN

GAS FLARE/BLOWER SYSTEM

BALING FACILITY

W/L 2014.7

W/L 2025.7

W/L 2077.6

LEGEND-EXISTING CONDITIONS

- UTILITY POLE
- GUY WIRE ANCHOR
- MANHOLE
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- CATCH BASIN
- CULVERT
- SIGN
- MAILBOX OR PAPER BOX
- POSTAL DROP BOX
- TELEPHONE PEDESTAL
- FENCE
- TREES/SHRUBS
- TREELINE

N.C. GRID NORTH N.A.D. 1983

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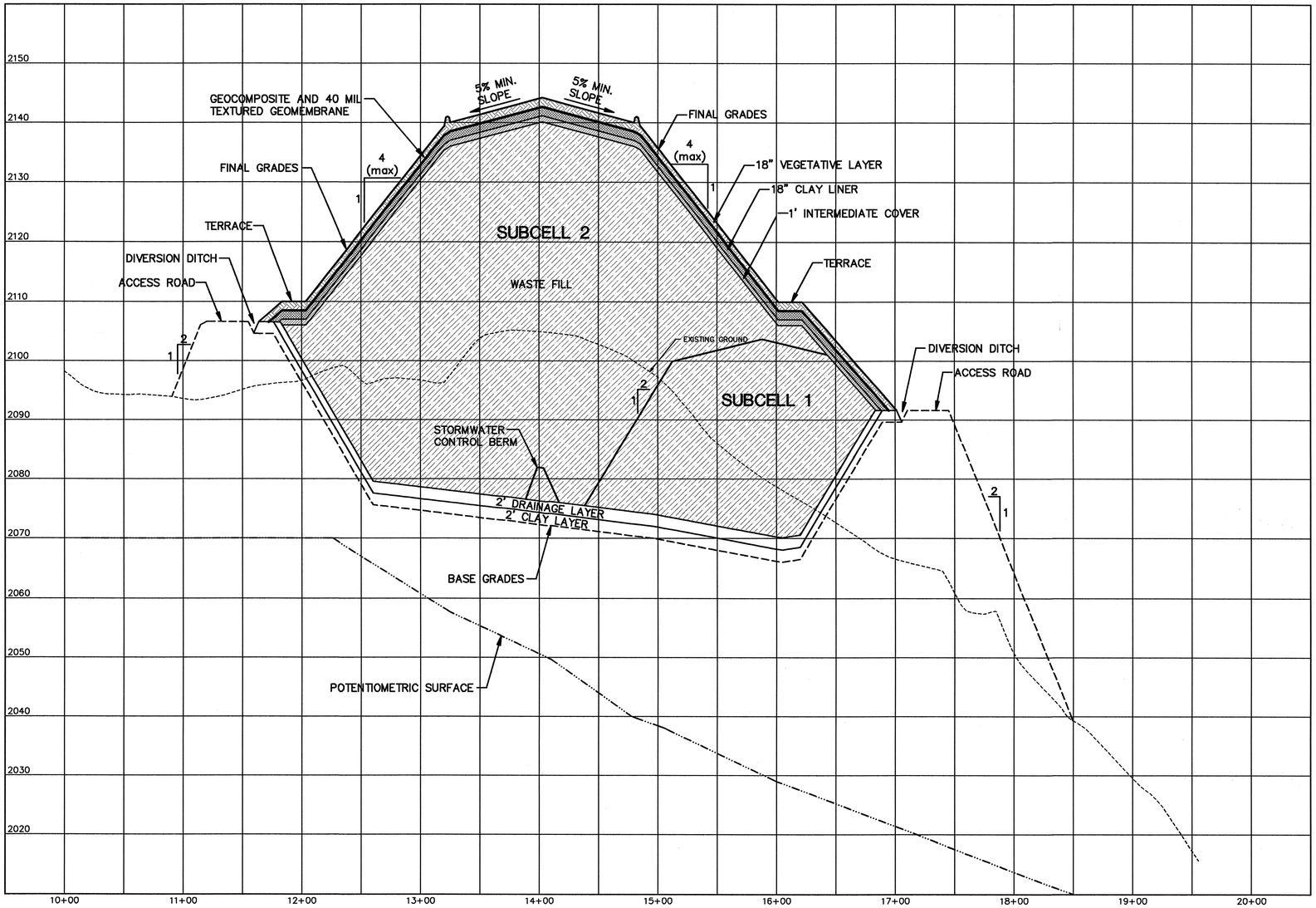
REVISION:

96117GCS

GAS COLLECTION SYSTEM

SHEET
16 OF 23



SECTION A-A

SCALE: HORIZ. 1"= 50'
VERT. 1"= 10'

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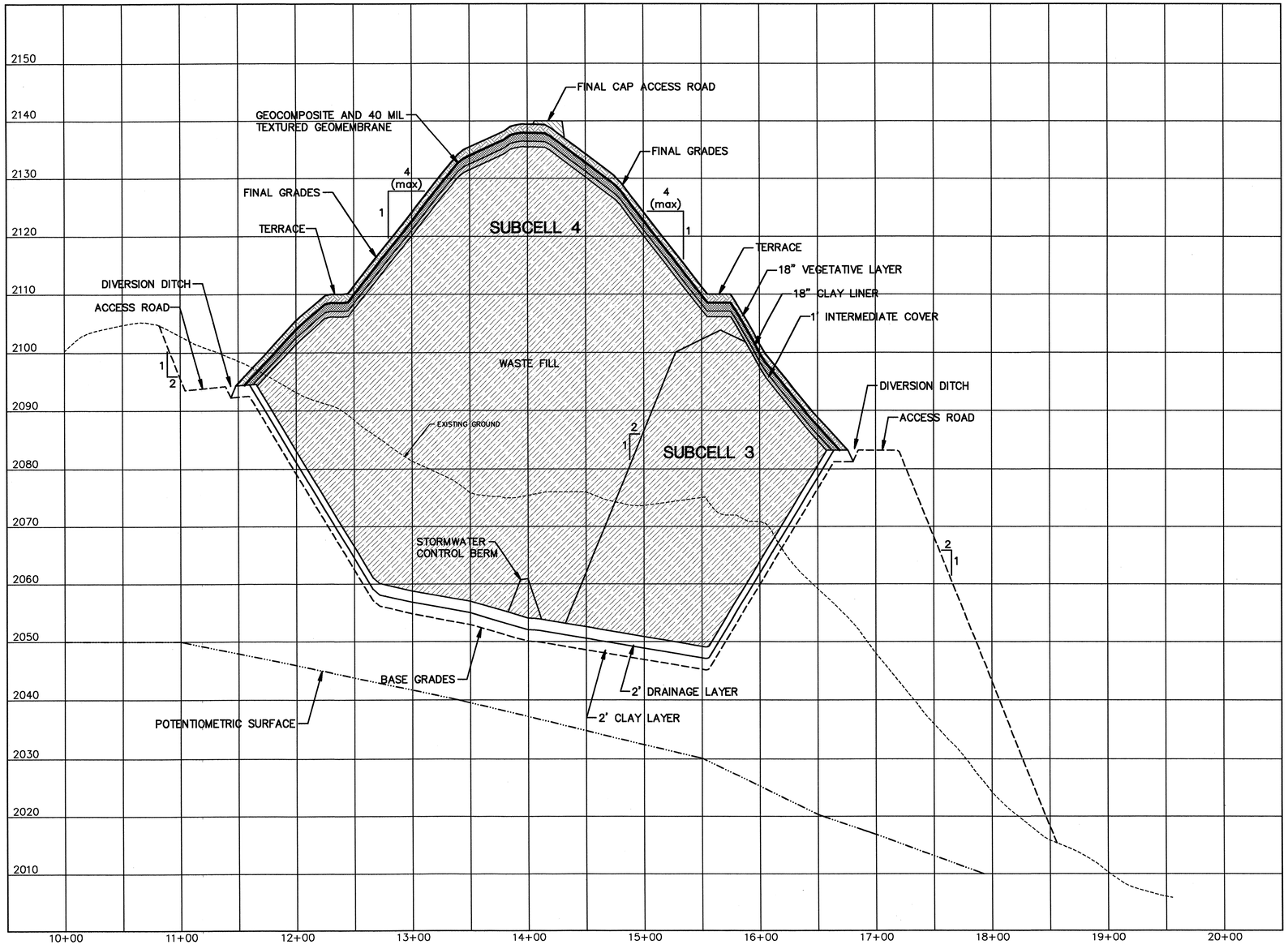
SCALE: AS NOTED
REVISION:
96117-AA

SECTION A-A

SHEET
17 OF 23



SECTION B-B

SCALE: HORIZ. 1"= 50'
VERT. 1"= 10'

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MACON COUNTY, NORTH CAROLINA

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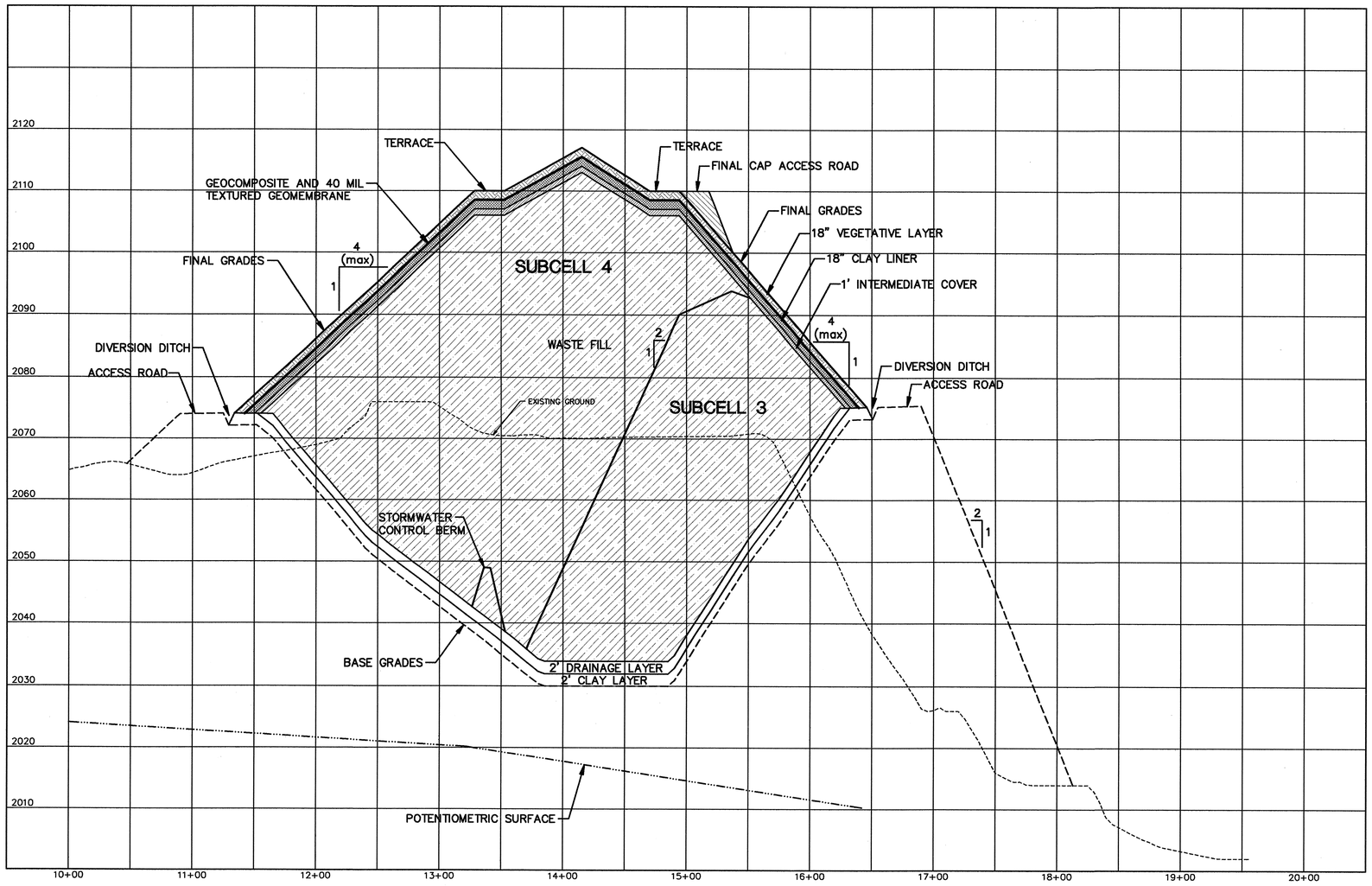
DATE: JUNE, 1997
SCALE: AS NOTED
REVISION:
96117-BB

SECTION B-B

SHEET
18 OF 23



SECTION C-C

SCALE: HORIZ. 1"= 50'
VERT. 1"= 10'

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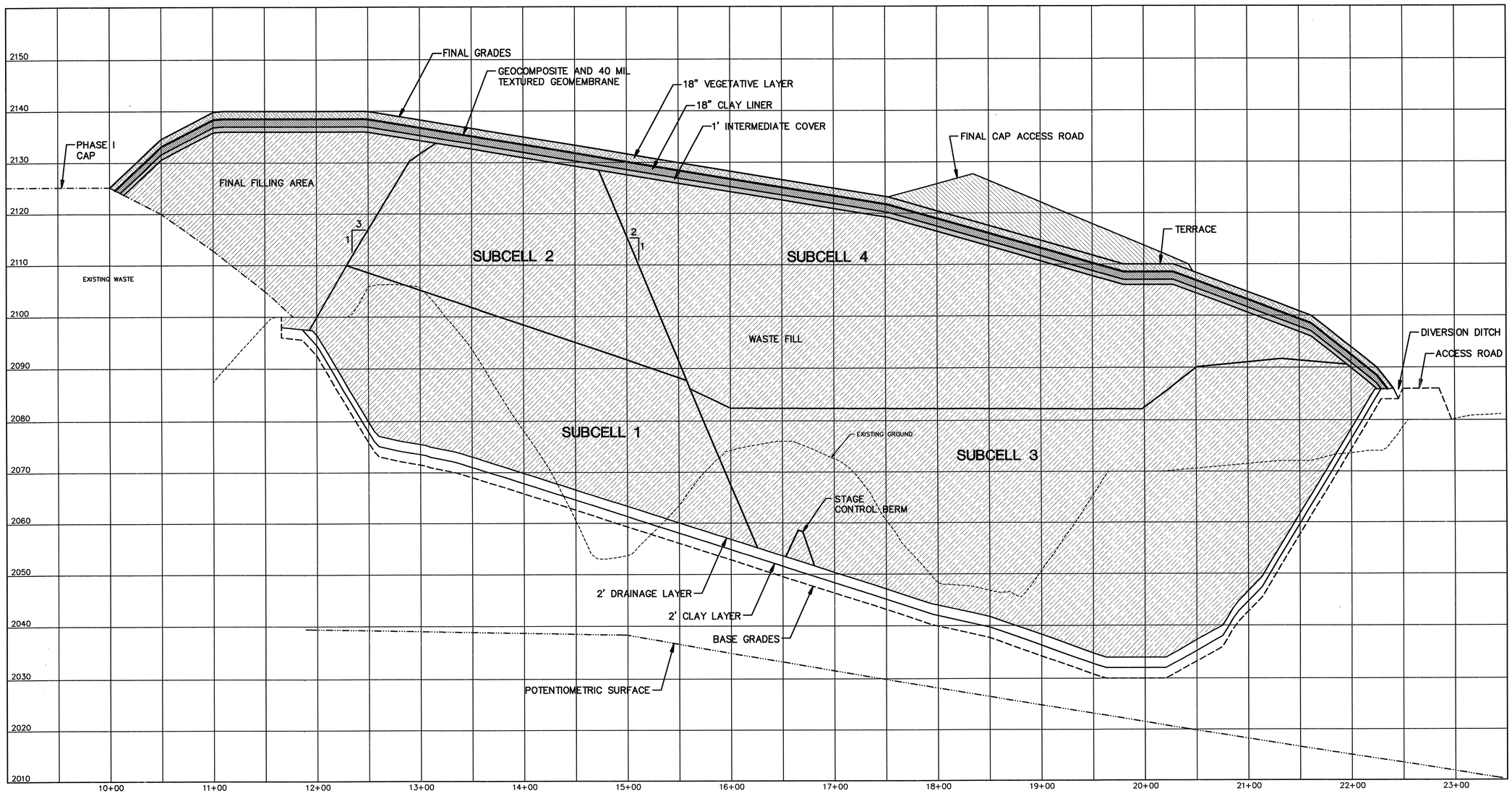
MACON COUNTY, NORTH CAROLINA

JOB NO.: 96117.01
DATE: JUNE, 1997
SCALE: AS NOTED
REVISION:
96117-CC

SECTION C-C

SHEET
19 OF 23



SECTION D-D

SCALE: HORIZ. 1"= 50'
VERT. 1"= 10'

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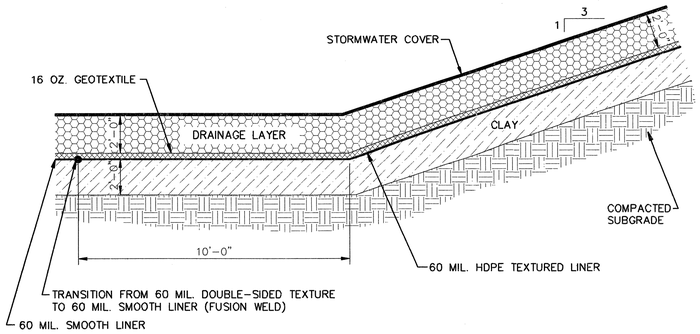
JOB NO.: 96117.01
DATE: JUNE, 1997
SCALE: AS NOTED
REVISION:

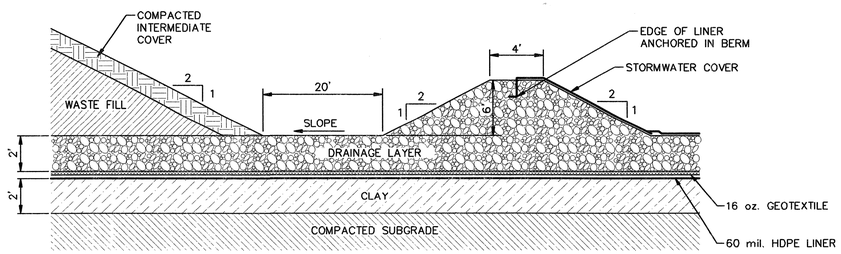
96117-DD

SECTION D-D

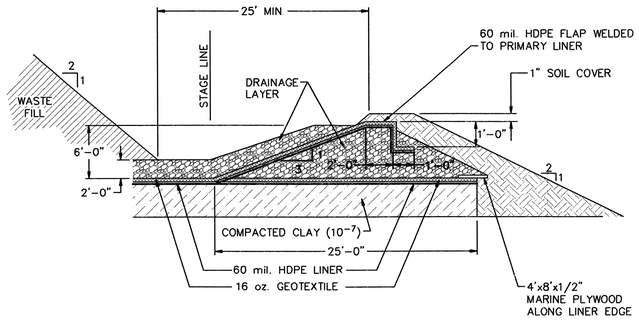
SHEET
20 OF 23



SLOPE-FLOOR TRANSITION

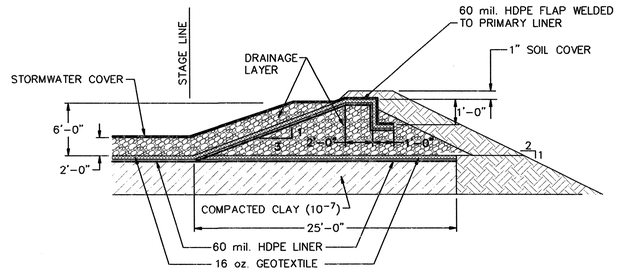


STORMWATER CONTROL BERM



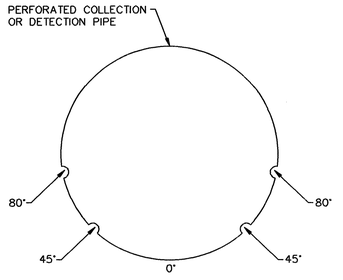
STAGE SEPARATION BERM - TYPE "A"

NOTE: TYPE "A" BETWEEN SUBCELL 1 & SUBCELL 3



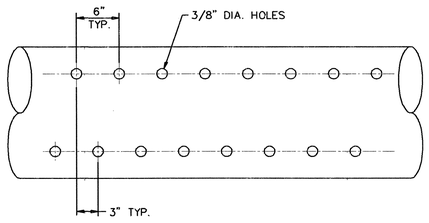
STAGE SEPARATION BERM - TYPE "B"

NOTE: TYPE "B" BETWEEN SUBCELL 2 & SUBCELL 4

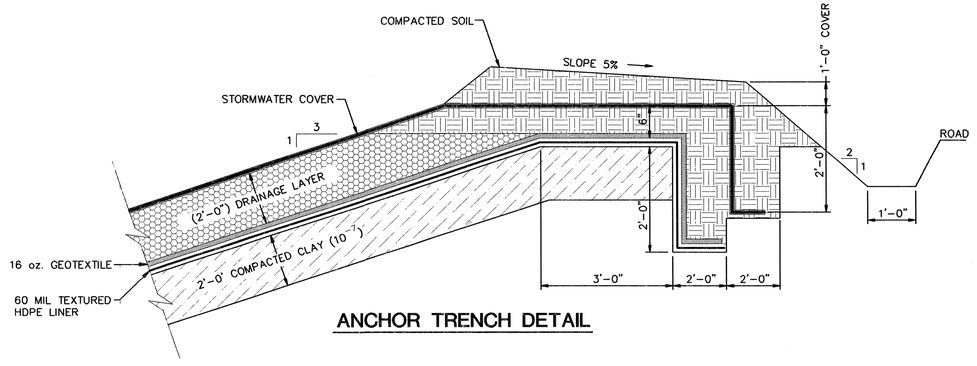


NOTES:
1. 0° CORRESPONDS TO PIPE INVERT.
2. PROVIDE FOUR 3/8" DIAMETER PERFORATIONS, AS SHOWN; 6" O.C.

PERFORATION PATTERN DETAIL



PERFORATED HDPE PIPE DETAIL



ANCHOR TRENCH DETAIL

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8/21/97

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MACON COUNTY, NORTH CAROLINA

JOB NO.: 96117.00
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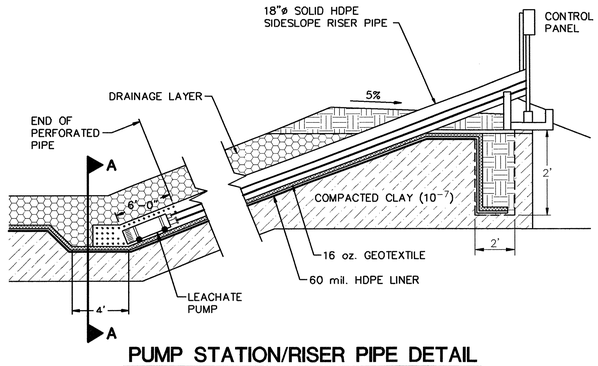
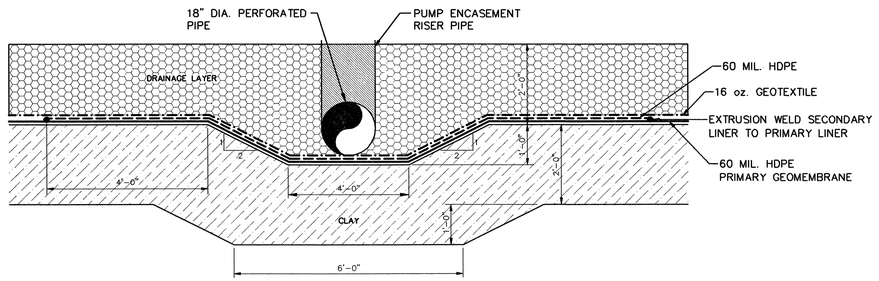
96117MD1

MISCELLANEOUS DETAILS

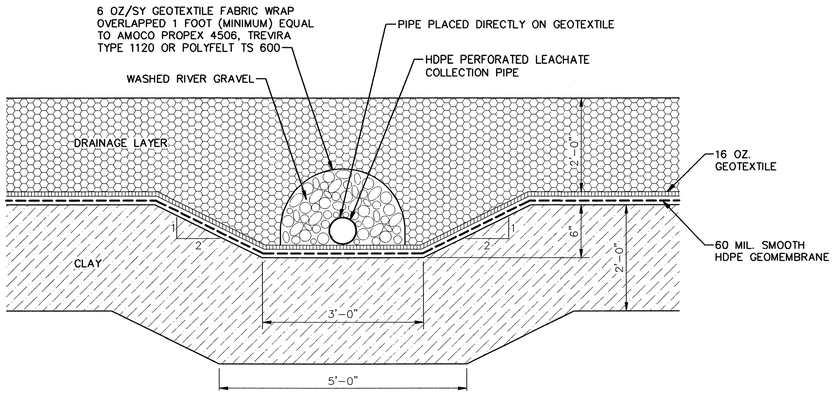
SHEET
21 OF 23



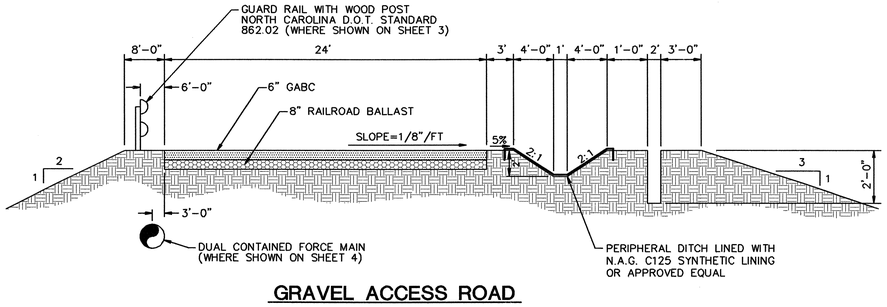
PUMP STATION/RISER PIPE DETAIL



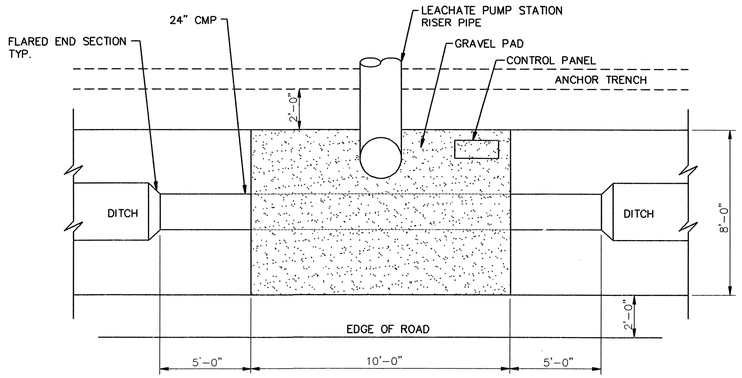
SUMP DETAIL (SECTION A-A)



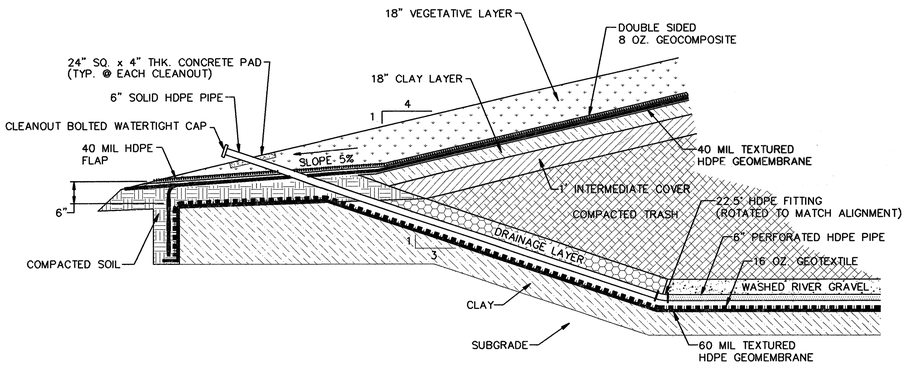
LEACHATE COLLECTION PIPE



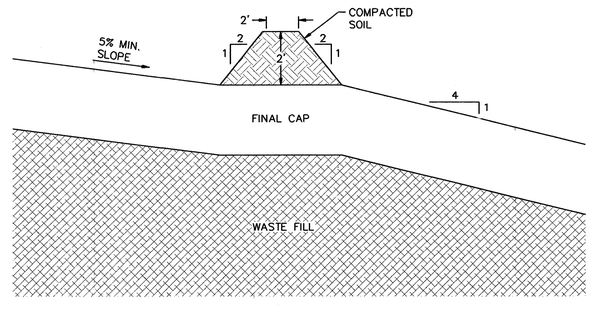
GRAVEL ACCESS ROAD



PUMP STATION - PLAN



TYPICAL SECTION AT CLEANOUT



DIVERSION BERM

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CAROLINA HUNTER GRAHAM VOGEL L. STEPHENSON SEAL 8-21-97

PHASE 2, CELL 1
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MACON COUNTY, NORTH CAROLINA

JOB NO.: 96117.00
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REVISION: 8/13/97
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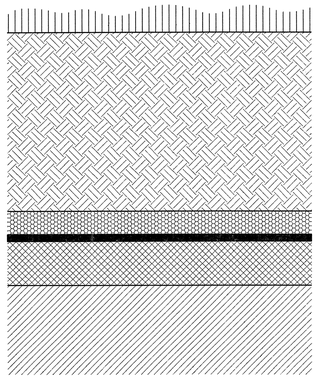
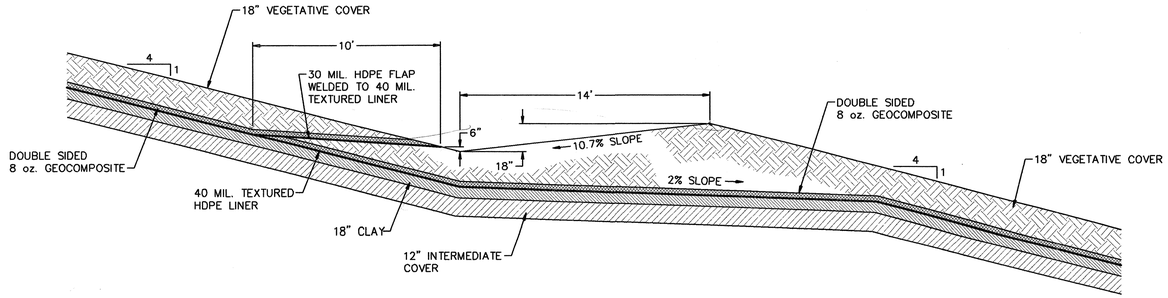
MISCELLANEOUS DETAILS

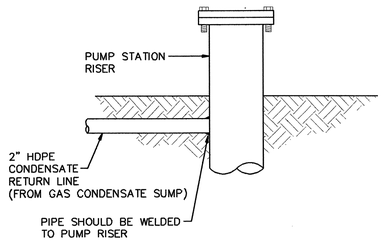
SHEET
22 OF 23



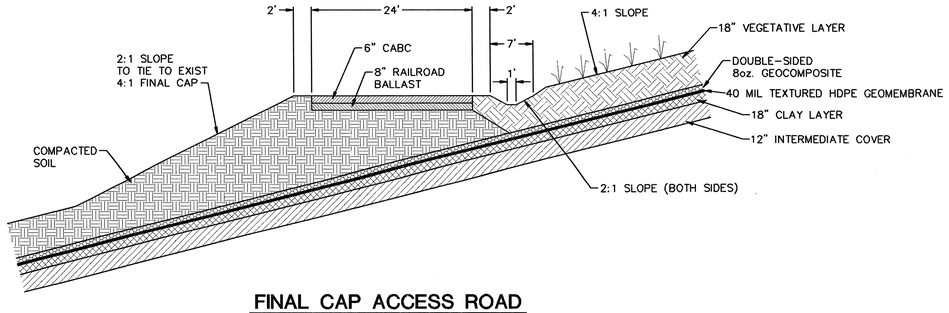
CAP DETAIL



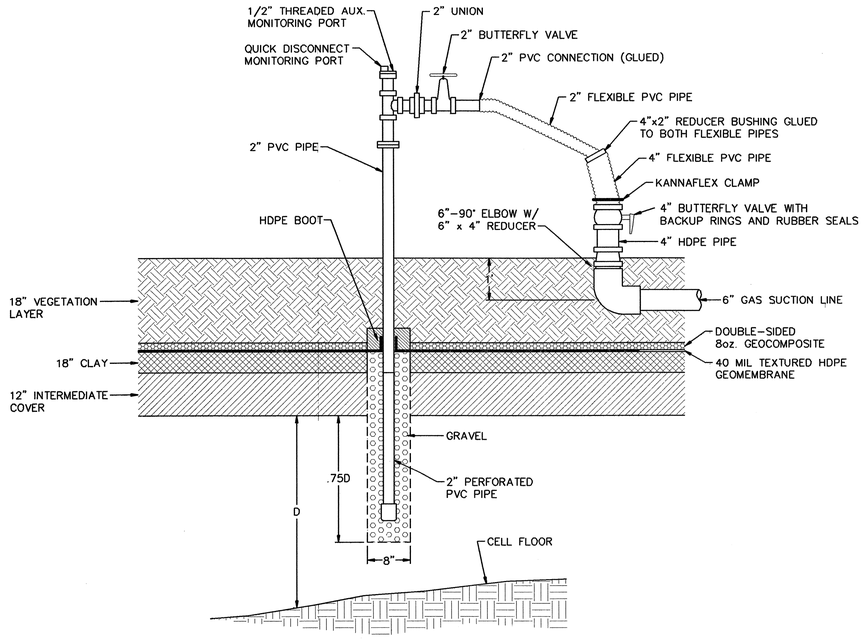
TERRACE DETAIL



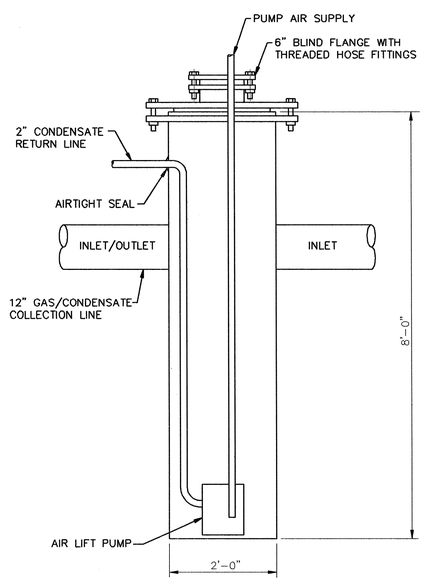
GAS CONDENSATE LINE TERMINATION



FINAL CAP ACCESS ROAD

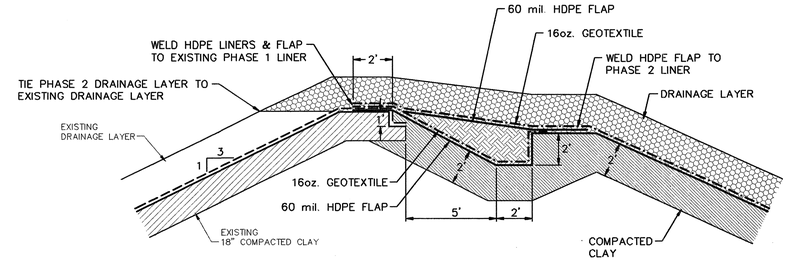


GAS EXTRACTION WELL

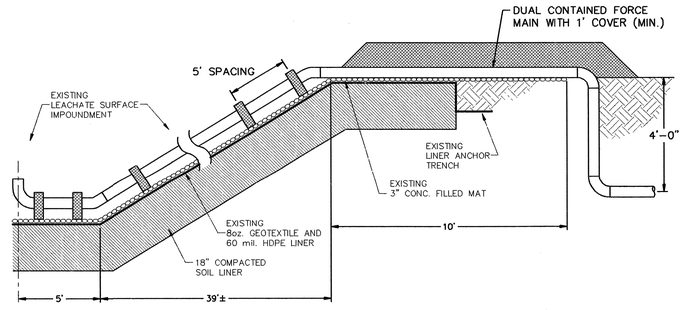


NOTE: ALL AIR LINES AND PIPES ENTERING OR EXITING SUMP SHOULD BE SEALED PROPERLY TO MAINTAIN A CONTAINED SYSTEM.

GAS CONDENSATE SUMP



CONNECTION TO EXISTING HDPE LINER EDGE



FORCE MAIN DISCHARGE INTO EXISTING SURFACE IMPOUNDMENT

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 019931 ROBERT L. STEVENS

6-24-97

PHASE 2, CELL 1
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MACON COUNTY, NORTH CAROLINA

JOB NO.: 96117.00
DATE: MAY 1997
SCALE: NOT TO SCALE
REVISION:

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MISCELLANEOUS DETAILS

SHEET
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